

# NEW SPECIES AND A CATALOGUE OF *STIGMODERA* (*CASTIARINA*) (COLEOPTERA: BUPRESTIDAE)

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## Summary

BARKER, S. (1979) New species and a catalogue of *Stigmodera* (*Castiarina*) (Coleoptera: BUPRESTIDAE). *Trans. R. Soc. S. Aust.* **103**(1), 1-23, 28 February, 1979.

A key to the sub-genera of *Stigmodera* Eschscholtz is given. The location of LaPorte & Gory types of *Stigmodera* (*Castiarina*) in the Hope Department of Entomology, University of Oxford is discussed. Seven species previously considered members of the sub-genus *Castiarina* are transferred: *alternata* Lumbholz, *maculiventris* MacLeay, *nickerli* Ohenberger, *praeterrita* Carter, *punctatostriata* Saunders and *secularis* Thomson to the sub-genus *Themognatha*; *rudis* Carter to *Stigmodera* (*sensu stricto*). Replacement names are given for three primary homonyms: *auripennis* Barker for *aurifera* Carter 1922 (a primary homonym of *S. aurifera* LaPorte & Gory 1837); *planata* Carter, an available synonym for *auricollis* Thomson 1857 (a primary homonym of *S. auricollis* LaPorte & Gory 1837); *magnificollis* Barker for *magnifica* Blackburn (a primary homonym of *S. magnifica* LaPorte & Gory 1837). A replacement name is given for one secondary homonym: *hoblerae* Carter for *mastersi* MacLeay 1872, a secondary homonym of *S. mastersi* (MacLeay) 1872, subsequently transferred to *Stigmodera* from *Neocurix*.

Seventeen new species of the sub-genus *Castiarina* (*bakeri*, *borealis*, *brooksi*, *carabyi*, *crockeriae*, *georgiana*, *macmillani*, *metallica*, *utriciceps*, *occidentalis*, *ovata*, *planipes*, *richardsi*, *subacuticeps*, *uptoni*, *verdiceps*, *walfordi*) are described and illustrated. Male genitalia of 15 of them are illustrated.

A synonymy is given for the sub-genus *Castiarina* and distribution is indicated by State or country. It is considered that there are 308 valid species in the sub-genus.

## Introduction

*Stigmodera* Eschscholtz 1829, with more than 400 described species, is the largest genus within the Australian BUPRESTIDAE. In *Stigmodera* the mouthparts are produced downwards to form a short rostrum, the pores on the antennae concentrated into fovea on the toothed segments, the labrum long, coloured like the clypeus, the posterior edge of the

pronotum sinuate, the frons not narrowed between the antennal cavities (Britton, 1970). There are three recognised sub-genera: *Stigmodera* (*sensu stricto*) Eschscholtz 1829, type species *macularia* (Donovan) 1805, with a total of eight species; *Themognatha* Solier 1833, type species *variabilis* (Donovan) 1805, with over 100 species; *Castiarina* LaPorte & Gory 1837, type species *pertyi* LaPorte & Gory 1837, with over 300 species.

## Key to sub-genera of *Stigmodera* (modified from Carter, 1929)

1. Elytra hollowed out with large foveolae; medium to large size *Stigmodera* (*sensu stricto*)  
Elytra striate or punctate-striate; sometimes with costae 2
2. Usually with tarsal hooks lobed and toothed at base; hair on dorsal surface of head; oval or round scutellum; medium to large size *Themognatha*  
Tarsal hooks always simple; never with hair on dorsal surface of head; scutellum heart-shaped or shield-shaped never round or oval; small to medium size *Castiarina*

Théry (1937) subdivided *Themognatha* but the modern sense, although Carter (1916, here I consider it a single sub-genus. Despite 1929, 1931a, 1931b) published a key to species, a check-list and a key to the species

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of the sub-genus *Castiarina*. Here I present descriptions of 17 new species and a catalogue of species. The main revision of *Castiarina* will be published when illustrations of all species are completed.

*LaPorte & Gory types in the collection of the Hope Department of Entomology*

The pamphlet on Australian Buprestidae, privately circulated by the Rev. F. W. Hope in 1836 was cited by LaPorte & Gory (1837) in their monograph, but was subsequently declared unavailable for the purposes of nomenclature by the International Commission on Zoological Nomenclature (1948), thus legalising a decision made 80 years previously by leading British entomologists of the day (*Proc. ent. Soc. Lond.* 5: cix-cx, 1868). The only objection was lodged by Dr J. Obenberger of Prague. Later Obenberger (1955) had his personal copy of the Hope pamphlet photographically reproduced in a paper, to make it 'available to all scientific investigators'. Although the Hope pamphlet remains unavailable for the purposes of nomenclature, the Hope "types" are extant. I have found that the types of some of the LaPorte & Gory species are not held in the collection of the Paris Museum. The species in question were attributed to Hope by LaPorte & Gory (1837), and under the relevant names the phrase "Du cabinet de M. Hope" appears in brackets. Authenticated specimens of all of these species are held in the Type collection of the Hope Department of Entomology, University of Oxford. The LaPorte & Gory names and the Hope Department of Entomology numbers are:

*S. semicincta* 982; *S. amabilis* 983; *S. andersoni* 959; *S. eruenta* 970; *S. bicingulata* 963; *S. bicincta* 962; *S. jospilota* 967; *S. sexspilota* 968; *S. sieboldi* 969; *S. apicalis* 965.

I conclude that the above specimens are the types of the respective LaPorte & Gory species.

*Species herein removed from the sub-genus Castiarina*

The following species are transferred to the sub-genus *Thebognatha*.

*S. secularis* Thomson

— *bifasciata* Saunders (secondary homonym of *bifasciata* (Hope))

— *bizonata* Obenberger

— *eburnea* Carter

*S. alternata* Lumholtz\*

*S. punctatostriata* Saunders\*

*S. maculiventris* MacLeay\*

— *rubricauda* Saunders

— *praecellens* Kerremans

— *notaticollis* Carter

*S. praeterita* Carter\*

*S. nickerli* Obenberger\*

— *strandii* Obenberger

*S. rudis* Carter is a lycid mimic. The type is unique but has damaged legs and antennae. It belongs either in *Stigmodera* (*sensu stricto*) or in a new monotypic sub-genus.

*Homonyms and replacement names*

*S. aurifera* Carter 1922, is a primary homonym of *S. aurifera* LaPorte & Gory 1837, p. 49 and I replace it with *S. auripennis* Barker. *S. auricollis* Thomson 1857 is a primary homonym of *S. auricollis* LaPorte & Gory 1837, p. 64. An available synonym, *S. planata* Carter 1916, becomes the valid name. *S. magnifica* Blackburn 1896 is a primary homonym of *S. magnifica* LaPorte & Gory 1837, p. 57 and I replace it with *S. magnificollis* Barker. *S. mastersi* MacLeay 1872, p. 245 is a secondary homonym of *S. mastersi* (MacLeay) 1872, p. 241 subsequently transferred to *Stigmodera* from *Neocuris*. *S. hoblerae* Carter 1922, an available synonym of this species, becomes the valid name.

The abbreviations used in the text for museum and private collections are as follows:

EA	Mr E. E. Adams, Edungalba, Qld.
GA	Mr G. Anderson, Alexandra, Vic.
ANIC	Australian National Insect Collection, C.S.I.R.O., Canberra.
JB	Mr J. A. G. Brooks, Cairns, Qld.
KC	Mr & Mrs K. Carnaby, Wilga, W. Aust.
AWH	Mr A. Walford-Huggins, Cairns, Qld.
BPBM	Bernice P. Bishop Museum, Honolulu.
BM	British Museum (Natural History), London.
JM	Mr J. Macqueen, Toowoomba, Qld.
NMV	National Museum of Victoria, Melbourne.
PI	Department of Primary Industry, Darwin.
RS	Mr R. I. Storey, Mareeba, Qld.
SAM	South Australian Museum, Adelaide.
WADA	Western Australian Department of Agriculture, South Perth.
WAM	Western Australian Museum, Perth.

\* The basal teeth of the tarsal hooks are very small or absent.

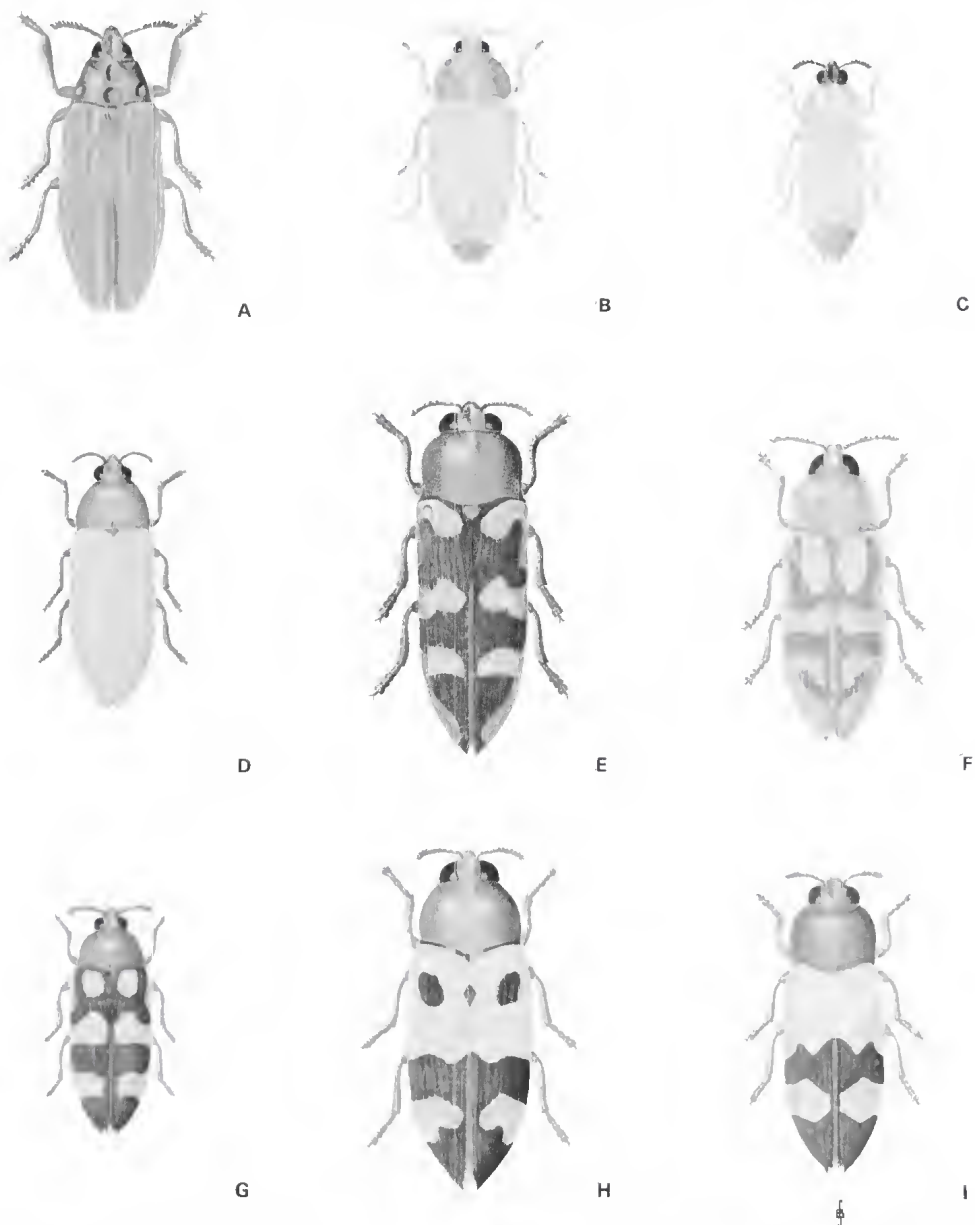


Fig. 1. x 3 natural size. A. *Stigmodera planipes* sp. nov. B. *Stigmodera crockeriae* sp. nov. C. *Stigmodera nigriceps* sp. nov. D. *Stigmodera metallica* sp. nov. E. *Stigmodera bakeri* sp. nov. F. *Stigmodera richardsi* sp. nov. G. *Stigmodera subacuticeps* sp. nov. H. *Stigmodera georgiana* sp. nov. I. *Stigmodera verdiceps* sp. nov.

***Stigmodera* (Castiarina) *planipes* sp. nov.**

FIGS 1A, 4A

*Types*: Holotype: ♂, Edungalba, Qld, 20.x.1968, E. E. Adams, SAM I 21081. Allotype: ♀, Edungalba, Qld, 7.xi.1960, E. E. Adams, SAM I 21082. Paratypes: 1 ♀, Dalby, Qld, Mrs F. H. Hobler, SAM; 1 ♀, Armidale, N.S.W., C. F. Deuquet, SAM; 4 ♂ & 4 ♀, Millmerran, Qld, x.1945, J. Macqueen, JM & EA;

2 ♂ & 2 ♀, Edungalba, Qld, 8.x.1947, E. E. Adams, EA; 1 ♂, Edungalba, Qld, 20.x.1968, E. E. Adams, SAM; 1 ♂, 10 km n-west Edungalba, Qld, 1.xi.1975, S. Barker, SAM; 1 ♂, Edungalba, Qld, x.1976, E. E. Adams, SAM.

*Colour*: Head, pronotum, scutellum black with yellow reflections. Antennae, undersurface and legs black with blue reflections. Elytra red-brown with narrow black basal margin and

variable black edging to suture, wings black but not opaque. Hairs silver.

**Shape and sculpture:** Head evenly but shallowly punctured with deep median groove between eyes, glabrous with small elevated knob on inside of each antennal cavity, muzzle moderately elongate. Antennae serrate. Pronotum evenly and shallowly punctured, glabrous; circular fovea in centre at base facing upwards; small fovea in centre near apex facing upwards and forwards; small fovea on each side of anterior margin; irregular fovea on each side before middle; projecting forwards in middle of apical edge; base bisinuate; laterally tapered from base to apex. Scutellum shield-shaped, concave in middle, without punctures, glabrous. Elytra elongate; costate with 4 costae on each elytron, intervals closely punctured and round, costae smooth; laterally angled outwards from base, rounded at shoulder then slightly concave until after middle, then rounded and tapered to preapical area, then more sharply tapered to apex which is truncate; hispidose, both spines small, interval between slightly curved inwards. Undersurface with shallow punctures, larger on anterior part than on abdomen; edges of abdominal sclerites glabrous; sparsely haired; last abdominal segment truncate in both sexes; tibia of forelegs laterally compressed at apex and unusually wide. In lateral profile projecting in meso- and metasternal area, abdomen tapering to apex. Females broader than males.

**Size:** Males  $12.2 \pm 0.23 \times 4.2 \pm 0.07$  mm (14). Females  $13.2 \pm 0.30 \times 4.8 \pm 0.09$  mm (19).

**Distribution:** Queensland and New South Wales.

**General remarks:** Grouped with *S. latipes* Carter. Both species are lycid mimics and have inflated fore-tibia. Differs from *S. latipes* as it is smaller, sculpture on pronotum less pronounced, head and pronotum glabrous.

**Specimens examined:** Types; 3 ♂, no data, SAM.

***Stigmodera (Castiarina) crockerae* sp. nov.**

FIGS 1B, 4B

**Types:** Holotype: ♂, Afghan Rocks, Balladonia Stn, W. Aust., on *Eucalyptus foecunda*, 2.ii.1975, S. Barker, SAM I 21083. Allotype: ♀, Afghan Rocks, Balladonia Stn, W. Aust., on *Eucalyptus foecunda*, 2.iii.1975, S. Barker, SAM I 21084. Paratypes: 1 ♂ & 2 ♀, Afghan Rocks, Balladonia Stn, W. Aust., 1.iii.1975, S.

Barker, SAM; 8 ♂ & 10 ♀, same data as holotype, SAM.

**Colour:** Head mottled red-brown, antennae testaceous. Pronotum mottled red-brown. Scutellum red-brown border, rest testaceous. Elytra yellow with testaceous spots, with narrow red-brown anterior margin and red-brown apex. Undersurface: anterior part mottled red-brown; coxae with 2 red-brown patches, remainder yellow with testaceous spots. Legs mostly yellow with testaceous spots; femora with red-brown stripe. Hairs silver.

**Shape and sculpture:** Head closely punctured with groove between eyes; muzzle short. Pronotum closely punctured; anterior margin straight, base bisinuate; laterally rounded from base and widest 1/3 from base, tapered to apex. Scutellum heart-shaped, closely punctured. Elytra punctate-striate, intervals flat at base, convex at apex; closely punctured surface, pitted and rough; laterally angled out from base, rounded at shoulder then slightly concave until after middle, round to apex which is hispidose; marginal spine larger than sutural spine, rounded and indented between; apices not diverging. Undersurface closely punctured and rough with few hairs, except in males which have patch of sensory bristles on either side of mid-line on meso- and metasternum; last abdominal segment truncate in male, rounded in female.

**Size:** Males  $8.4 \pm 0.20 \times 3.0 \pm 0.08$  mm (18). Females  $9.2 \pm 0.16 \times 3.4 \pm 0.05$  mm (14).

**Distribution:** Western Australia and South Australia.

**General remarks:** A cryptic species grouped with *S. testacea* Saunders. Differs from *S. testacea* in being larger, not costate, pronotum is inflated in middle. Named after Mrs A. E. Crocker of Balladonia Stn, Western Australia.

**Specimens examined:** W. Aust.; types; 3 ♂, Lake Grace, SAM; 3 ♂ & 1 ♀, Piawanning, 28.i.1951, R. P. McMillan, SAM; 1 ♂, 16 km south Borden, 27.ii.1956, SAM. S. Aust., 1 ♂, no data, SAM.

***Stigmodera (Castiarina) nigriceps* sp. nov.**

FIGS 1C, 4C

**Types:** Holotype: ♂, 15 km east Einasleigh, Qld, 11.i.1970, R. Storey & T. T. Marsh, SAM I 21085. Allotype: ♀, 11 km west Mt Carbine, Qld, 21.xii.1977, R. Storey & K. Halfpapp, SAM I 21086. Paratypes: 5 ♂, 11 km west Mt Carbine, Qld, 21.xii.1977, R. Storey & K. Halfpapp, 3 SAM & 2 AWH; 1

♂, 11 km west Mt Carbine, Qld, 1.i.1978, R. Storey, RS; 1 ♂, 9 km NW Mt Molloy, Qld, 8.i.1978, Nat & R. I. Storey, RS; 1 ♀, Darwin, N.T., 27.x.1970, T. Weir, PI.

**Colour:** Head and antennae black. Pronotum, scutellum, undersurface and legs testaceous. Elytra testaceous with brown apical mark, reduced to two apical spots or entirely absent in some specimens, accessory post-medial spots on each elytron in some specimens. Hairs silver.

**Shape and sculpture:** Head closely punctured with median groove between eyes; muzzle short. Pronotum closely punctured, with small basal fovea projecting forwards as median impressed line, with basal notches on each side towards margin; anterior margin straight; basal margin bisinuate; laterally rounded from base to apex and widest in middle, dorso-ventrally flattened at sides, more so at base than at apex. Scutellum shield-shaped, concave in middle and with punctures. Elytra punctate-striate, intervals flat at base, convex at apex, with many punctures, surface uneven; laterally slightly angled out from base, rounded at shoulder then concave until after middle, rounded to apex which is hispinose; marginal spine larger than sutural spine, indented and rounded between; apices not diverging. Undersurface closely and shallowly punctured, hairs sparse except at anterior margin and with two rows of sensory bristles on either side of midline on the meso- and meta-sternal sclerites in males, absent in females. Last abdominal segment rounded in both sexes.

**Size:** Males  $7.6 \pm 0.16 \times 2.7 \pm 0.05$  mm (8). Females  $7.6 \times 2.9$  mm (2).

**Distribution:** Northern Territory and Queensland.

**General remarks:** Grouped with *S. testacea* Saunders and *S. crockeri* Barker. It differs from the other two species, being smaller and having a black head.

**Specimens examined:** Types only.

***Stigmodera (Castiarina) metallica* sp. nov.**

FIGS 1D, 4D

**Types:** Holotype: ♂, Talling Stn, 10 km north Pindar, W. Aust. on *Eucalyptus oldfieldi*, 27.xii.1975, S. Barker, SAM I 21087. Allotype: ♀, Talling Stn, 10 km north Pindar, W. Aust. on *Eucalyptus oldfieldi*, 27.xii.1975, S. Barker, SAM I 21087. Paratypes: 1 ♂, same data as holotype, SAM; 2 ♂ & 2 ♀, Southern Cross, W. Aust., 12.i.1936, H. W. Brown,

NMV; 2 ♂ & 1 ♀, Yellowdine, W. Aust., i.1939, F. E. Wilson, NMV; 1 ♂, Dedari, W. Aust., H. W. Brown, ANIC; 1 ♂, Marloo Stn, Wurarga, W. Aust., 1931–1941, A. Goerling, ANIC; 2 ♂ & 2 ♀, Lake Grace, W. Aust., 27.xii.1969, K. & E. Carnaby, KC; 1 ♂ & 1 ♀, Southern Cross, W. Aust., H. W. Brown, WAM; 3 ♂ & 1 ♀, Dedari, W. Aust., 15.i.1950, A. M. Douglas, WAM.

**Colour:** Head, antennae, pronotum, scutellum, undersurface and legs either all metallic green or all metallic copper, the two colours not sex linked. Elytra pale yellow, anterior margin same colour as rest of body.

**Shape and sculpture:** Head closely punctured, with broad groove between eyes; muzzle short. Pronotum closely punctured, with faint median glabrous line extending to middle from elongate basal fovea; anterior margin projecting forwards in middle; basal margin bisinuate; laterally rounded from base to apex, widest before middle then narrowed to apex. Scutellum heart-shaped and flat with few shallow punctures. Elytra punctate-striate, intervals flat and smooth at anterior end, convex at apex; laterally slightly angled out from base, rounded at shoulder then concave until after middle, then rounded and narrowed to apex which is hispinose; marginal spine larger than sutural spine, rounded and indented between; apices slightly diverging; apical margin finely serrate. Undersurface with close shallow punctures, moderately hairy. Last abdominal segment truncate in male, bilobed and pressed in, in female.

**Size:** Males  $10.6 \pm 0.17 \times 3.5 \pm 0.05$  mm (14). Females  $10.9 \pm 0.31 \times 3.7 \pm 0.08$  mm (8).

**Distribution:** Western Australia.

**General remarks:** Grouped with *S. pallidipennis* Blackburn, but differs from that species being smaller and narrower, apical margin subserrate, abdomen never testaceous.

**Specimens examined:** Types only.

***Stigmodera (Castiarina) bakeri* sp. nov.**

FIGS 1E, 4E

**Types:** Holotype: ♂, Wialki, W. Aust., 18.ix.1957, S. Barker, SAM I 21089. Allotype: ♀, 88 km NE Wubin, W. Aust., 17.ix.1970, S. Barker, SAM I 21090. Paratypes: 8 ♂ & 2 ♀, 62 km NE Wubin, W. Aust., 29.ix.1972, F. H. Uther Baker, SAM; 6 ♂ & 3 ♀, 74 km SW Payne's Find, W. Aust., 17.ix.1972, F. H. Uther Baker, SAM; 1 ♂ & 1 ♀, 88 km NE



Wubin, W. Aust., 17.ix.1970, *S. Barker*, SAM; 1 ♂ & 1 ♀, Wialki, W. Aust., 18.ix.1957 & 21.ix.1970, *S. Barker*, SAM; 7 ♂ & 13 ♀, Marloo Stn, Wurarga, W. Aust., 1931–1941, *A. Goerling*, ANIC; 1 ♂ & 1 ♀, Wongan Hills, W. Aust., *H. W. Brown*, ANIC.

**Colour:** Head and antennae blue-green in male, bronze or green in female. Pronotum black in centre, blue-green at margins in male, margins bronze or green in females. Scutellum dark blue. Undersurface and legs blue. Elytra yellow with red margins, each elytron with following dark blue markings: thin band along basal margin; fascia before middle, expanded forwards at outer edge and backwards where it touches margin; a fascia after middle touching margin and expanded forwards in middle; spade-shaped preapical mark; fascia are connected down suture and to apex. Hairs silver.

**Shape and sculpture:** Head closely punctured, with median groove between eyes; muzzle short. Pronotum closely punctured, punctures at lateral margin larger than those in middle, with shallow, round depression at base of each side near margin, an elongate but shallow median impressed line projecting forwards from basal fovea to middle; apical margin projecting forwards in middle; basal margin bisinuate; laterally parallel-sided from base until after middle then abruptly rounded to apex. Scutellum shield-shaped and flat, without punctures, glabrous. Elytra punctate-striate, intervals flat near base, convex at apex; laterally angled out from base for short distance, rounded at shoulder then concave until after middle then rounded to apex; no apical spines, apices diverging. Undersurface with long hair, dense at anterior part, less dense on abdomen; last abdominal segment truncate and slightly indented in middle in males, deeply indented in middle and folded under in females.

**Size:** Males  $13.2 \pm 0.21 \times 4.3 \pm 0.07$  mm (26). Females  $14.7 \pm 0.32 \times 4.9 \pm 0.12$  mm (21).

**Distribution:** Western Australia.

**General remarks:** Grouped with *S. browni* Carter but differs in being a smaller species, is not bispinose and has a smooth apical margin. Named after Dr F. H. Uther Baker.

**Specimens examined:** Types only.

***Stigmodera (Castiarina) richardsi* sp. nov.**

FIGS 1F, 4F

**Types:** Holotype: ♂, Coral Bay, W. Aust., 28.viii.1974, *K. & E. Carnaby*, SAM I 21091. Allotype: ♀, Coral Bay, W. Aust., 27.viii.1974,

*K. & E. Carnaby*, ANIC. Paratypes: 2 ♂, Coral Bay, W. Aust., 28.viii.1974, *K. & E. Carnaby*, KC; 6 ♂ & 1 ♀, Coral Bay, W. Aust., 4.ix.1971, *K. T. Richards*, WADA; 2 ♂ & 1 ♀, 19 km north Coral Bay, W. Aust., 4.ix.1971, *K. T. Richards*, WADA; 3 ♂ & 1 ♀, 120 km south Exmouth, W. Aust., 4.ix.1971, *K. T. Richards*, WADA; 2 ♂ & 1 ♀, Coral Bay, W. Aust., 29.viii.1974, *K. & E. Carnaby*, ANIC; 1 ♂ & 1 ♀, Coral Bay, W. Aust., 27.viii.1974, *K. & E. Carnaby*, ANIC.

**Colour:** Head, antennae, mouthparts and legs green with yellow reflections, head with yellow frontal spot. Pronotum green with yellow reflections, yellow down lateral margins. Scutellum bright green. Elytra yellow with following bright green markings: vitta from each shoulder is connected to premedial fascia which does not reach margin; post-medial fascia concave to base; preapical spot on each elytron connected obliquely to suture, all connected down suture and reaching innermost two spines. Red marginal border present, thicker at apex than at base. Undersurface: edges of abdominal segments yellow; sutures green; hairs silver.

**Shape and sculpture:** Head closely punctured, flat between eyes, muzzle short. Pronotum closely punctured with small basal fovea in middle and basal notches on each side, closer to the margin than middle; projecting forwards in middle of anterior margin, basal margin barely bisinuate; laterally rounded from base to apex, widest 1/3 from base. Scutellum shield-shaped, flat with few punctures. Elytra punctate-striate, intervals convex at apex, flatter at base, punctured at shoulder and close to margins, not near suture; laterally angled outwards from base, rounded at shoulder then concave until after middle then rounded and narrowed to apex which is trispinose; inner and outer spines small, middle spine larger; apices slightly diverging. Undersurface with shallow punctures and few short hairs. Last abdominal segment truncate in male, indented and bilobed in female.

**Size:** Males  $11.3 \pm 0.24 \times 4.1 \pm 0.08$  mm (17). Females  $12.1 \pm 0.26 \times 4.5 \pm 0.06$  mm (6).

**Distribution:** Western Australia.

**General remarks:** Grouped with *S. flaviceps* Carter but differs from that species being trispinose and having bright green markings. Named after Mr K. T. Richards.

**Specimens examined:** Types only.

**Stigmodera (Castiarina) subacuticeps** sp. nov.

FIGS 1G, 4G

*Types:* Holotype: ♂, Badjalang, W. Aust., 30.ix.1970, S. Barker, SAM I 21092. Allotype: ♀, Badjalang, W. Aust., 30.ix.1970, S. Barker, SAM I 21093. Paratypes: 6 ♂ & 7 ♀, South Tammin Flora Reserve, W. Aust., 8.xi.1970, S. Barker, SAM; 3 ♂ & 1 ♀, Lake Grace, W. Aust., 1.xi.1970, K. & E. Carnaby, SAM; 1 ♀, Ajana, W. Aust., 16.ix.1958, F. H. Uther Baker, SAM; 1 ♂, Tallering Stn, Pindar, W. Aust., 7.ix.1976, R. P. McMillan, SAM; 1 ♂, 3 km south Maya, W. Aust., 3.xi.1968, N. McFarland, SAM; 2 ♂ & 3 ♀, Marloo Stn, Wurruga, W. Aust., 1931-1941, A. Goerling, ANIC.

*Colour:* Head and antennae black with blue reflections. Pronotum green with blue reflections or blue. Scutellum, undersurface and legs black with blue reflections. Hairs silver. Elytra yellow with following black markings all with blue reflections: anterior margin; premedial fascia with ends expanded into a vitta reaching anterior margin and posteriorly lateral margin, enclosing basal spot and elongate marginal mark; straight post-medial fascia touching margin; apical mark. All marks connected down suture.

*Shape and sculpture:* Head closely and shallowly punctured with median groove between eyes, muzzle short. Pronotum closely punctured with shallow elongate basal depression projecting forwards as impressed line from base to apex, more obvious at apex; with basal notch on each side, closer to margin than centre; apical margin straight, basal margin barely bisinuate; laterally flared out at base, pinched in then rounded and narrowed to apex. Scutellum heart-shaped and glabrous. Elytra punctate-striate, intervals convex, more so at apex and flatter at base with shallow punctures in basal area, smooth at apex; laterally angled out from base, rounded at shoulder, concave until after middle, rounded to apex which is bispinose; marginal spine larger than sutural, interval between rounded and indented; apices slightly diverging; apical margin sub-serrate. Undersurface with close shallow punctures, moderately covered with medium length hair; last abdominal segment broadly truncate in both sexes.

*Size:* Males  $9.1 \pm 0.20 \times 3.3 \pm 0.07$  mm (14). Females  $9.4 \pm 0.25 \times 3.5 \pm 0.09$  mm (14).

*Distribution:* Western Australia.

*General remarks:* Grouped with *S. acuticeps* Saunders, but is a narrower species.

*Specimens examined:* Types only.

**Stigmodera (Castiarina) georgiana** sp. nov.

FIGS 1H, 4H

*Types:* Holotype: ♂, Coral Bay, W. Aust., 29.vii.1977, K. & E. Carnaby, SAM I 21094. Allotype: ♀, Karang Stn, Shark Bay, W. Aust., on *Acacia* sp., 3.x.1957, S. Barker, SAM I 21095. Paratypes: 1 ♂ & 1 ♀, 2 km east Horrock's Beach, W. Aust., 21.ix.1958, D. H. Edward, SAM; 1 ♀, Carnarvon, W. Aust., 8.viii.1962, F. H. Uther Baker, SAM; 1 ♂, Wooralma, W. Aust., 18.viii.1962, F. H. Uther Baker, SAM; 1 ♀, 48 km south Carnarvon, W. Aust., 15.ix.1969, F. H. Uther Baker, SAM; 1 ♂, Wahroonga Stn, Gascoigne district, W. Aust., 17.ix.1969, F. H. Uther Baker, SAM; 1 ♀, Coral Bay, W. Aust., 29.vii.1977, K. & E. Carnaby, KC; 1 ♂, Dirk Hartog Isl., W. Aust., 6.ix.1972, A. S. George, WADA; 4 ♂ & 3 ♀, Marloo Stn, Wurruga, W. Aust., 1931-1941, A. Goerling, ANIC; 1 ♂, Geraldton, W. Aust., 1914, Clarke, ANIC; 2 ♀, Lake Austin, W. Aust., H. W. Brown, NMV; 2 ♂, Cue, W. Aust., H. W. Brown, NMV; 1 ♂, Geraldton, W. Aust., J. Clark, NMV; 1 ♀, W. Aust., ANIC.

*Colour:* Head, antennae, pronotum, scutellum, undersurface and legs black or blue-green with blue reflections. Elytra deep yellow with following black markings all with blue reflections: basal margin; premedial fascia, reduced to spot in middle of each elytron at shoulder and one on suture in some specimens; post-medial fascia reaching margin, projecting forwards in middle of each side and projecting forwards and backwards along suture; preapical mark covering apices and spines, last two marks connected down suture, fascia may or may not be connected down suture. Hairs silver.

*Shape and sculpture:* Head closely punctured with narrow, shallow groove between eyes, slightly ridged on inside of each antennal cavity, muzzle short. Pronotum with shallow punctures and minute median basal depression, with unpunctured median glabrous line from base to middle; projecting forwards in middle of apical margin, basal margin barely bisinuate; laterally rounded and narrowed from base to apex, widest part 1/3 distance from base. Scutellum shield-shaped, concave in middle, without punctures and glabrous. Elytra punctate-striate, intervals convex more so at apex than

base, with shallow punctures; laterally angled out from base, rounded at shoulder then concave until after middle, rounded and tapered to apex which is bispinose; marginal spine large, sutural spine very small, rounded and indented between; apices slightly diverging. Undersurface with shallow punctures, sparsely haired, hair long at anterior part, short on abdomen; last abdominal segment truncate and slightly indented in male, bilobed and pointed in female.

*Size:* Males  $12.7 \pm 0.22 \times 4.7 \pm 0.09$  mm (12). Females  $14.3 \pm 0.32 \times 5.4 \pm 0.13$  mm (13).

*Distribution:* Western Australia.

*General remarks:* This species is grouped with *S. longicollis* Saunders, *S. propinqua* Carter, *S. perlonga* Carter, *S. domina* Carter. It is smaller than all but *S. perlonga* but is comparatively wider than that species. Named after Dr R. W. George.

*Specimens examined:* Types only.

***Stigmodera (Castiarina) verdiceps* sp. nov.**

FIGS 11, 41

*Types:* Holotype: ♂, Port Samson, W. Aust., 23.xii.1946, bred out of *Acacia* sp., *H. W. Brown*, SAM I 21096. Allotype: ♀, W. Aust., i.1947, *W. du Boulay*, ANIC. Paratypes: 3 ♂, same data as holotype, SAM; 1 ♂, same data as allotype, ANIC.

*Colour:* Head green, antennae dark brown with green reflections. Pronotum, scutellum, undersurface and legs green; hairs silver. Elytra yellow with following black markings which have blue reflections: anterior margin; post-medial fascia, reaching margin and expanded forwards in middle of each elytron and on suture; large apical mark connected along suture to fascia.

*Shape and sculpture:* Head closely punctured with median groove between eyes and ridged on inside of each antennal cavity, muzzle short. Pronotum closely punctured with small median basal depression projecting forwards as short impressed line; basal notch on each side, closer to margin than suture; projecting forwards in middle of anterior margin; basal margin bisinuate; laterally pinched in at base, rounded at apex and widest in middle. Scutellum heart-shaped and depressed in middle at anterior edge, without punctures. Elytra punctate-striate, intervals convex, more so at apex than at base; laterally angled out from base, rounded at shoulder then concave until after middle, rounded to apex which is bispinose; marginal

spine slightly larger than sutural spine, rounded and indented between; apices diverging; margin sub-serrate from edge of apical mark to spines. Undersurface closely and shallowly punctured, sparsely haired; last abdominal segment broadly truncate and slightly indented in middle in males, narrowly truncate and indented in females.

*Size:* Males  $12.3 \pm 0.25 \times 4.4 \pm 0.08$  mm (5). Female  $14.3 \times 5.2$  mm (1).

*Distribution:* Western Australia.

*General remarks:* Grouped with *S. georgiana* Barker and its related species, but is cylindrical, narrower and bispinose.

*Specimens examined:* W. Aust.; Types; 1 ♂, Broome, i.1947, *H. W. Brown*, SAM.

***Stigmodera (Castiarina) macmillani* sp. nov.**

FIGS 2A, 4J

*Types:* Holotype: ♂, Wialki, W. Aust., 21.ix.1970, *S. Barker*, SAM I 21097. Allotype: ♀, Wialki, W. Aust., 17.ix.1957, *S. Barker*, SAM I 21098. Paratypes: 2 ♀, Northam, W. Aust., xi.1938, *C. G. Jessup*, SAM; 1 ♂, Meckering, W. Aust., 4.xi.1955, *R. P. McMillan*, SAM; 1 ♂, Badjaling, W. Aust., 30.ix.1970, *S. Barker*, SAM; 1 ♀, 10 km east Ravensthorpe, W. Aust., 16.xii.1975, *S. Barker*, SAM.

*Colour:* Head, antennae, pronotum, scutellum, undersurface and legs, dull bronze, green or blue. Elytra yellow with red margin and with following black markings: basal margin; pre-medial fascia expanded at marginal end into vitta reaching anterior margin forwards and lateral margin backwards, enclosing yellow basal mark at shoulder and elongate, predominantly red mark at shoulder; post-medial fascia touching margin in some specimens, not in others; preapical spade-shaped mark. Fascia connected down suture, preapical mark expanded down suture to apices in some specimens, not in others.

*Shape and sculpture:* Head closely punctured with shallow groove between eyes, muzzle short. Pronotum closely punctured with very small basal depression projecting forwards as glabrous line to middle and as shallow impressed line from middle to apex; no basal notches but glabrous triangular areas on each side at base closer to margin than centre; anterior margin straight; basal margin barely bisinuate; laterally angled inwards from base, then parallel-sided, rounded at middle and narrowed to apex, no hairs on dorsal surface. Scutellum shield-shaped, without punctures.



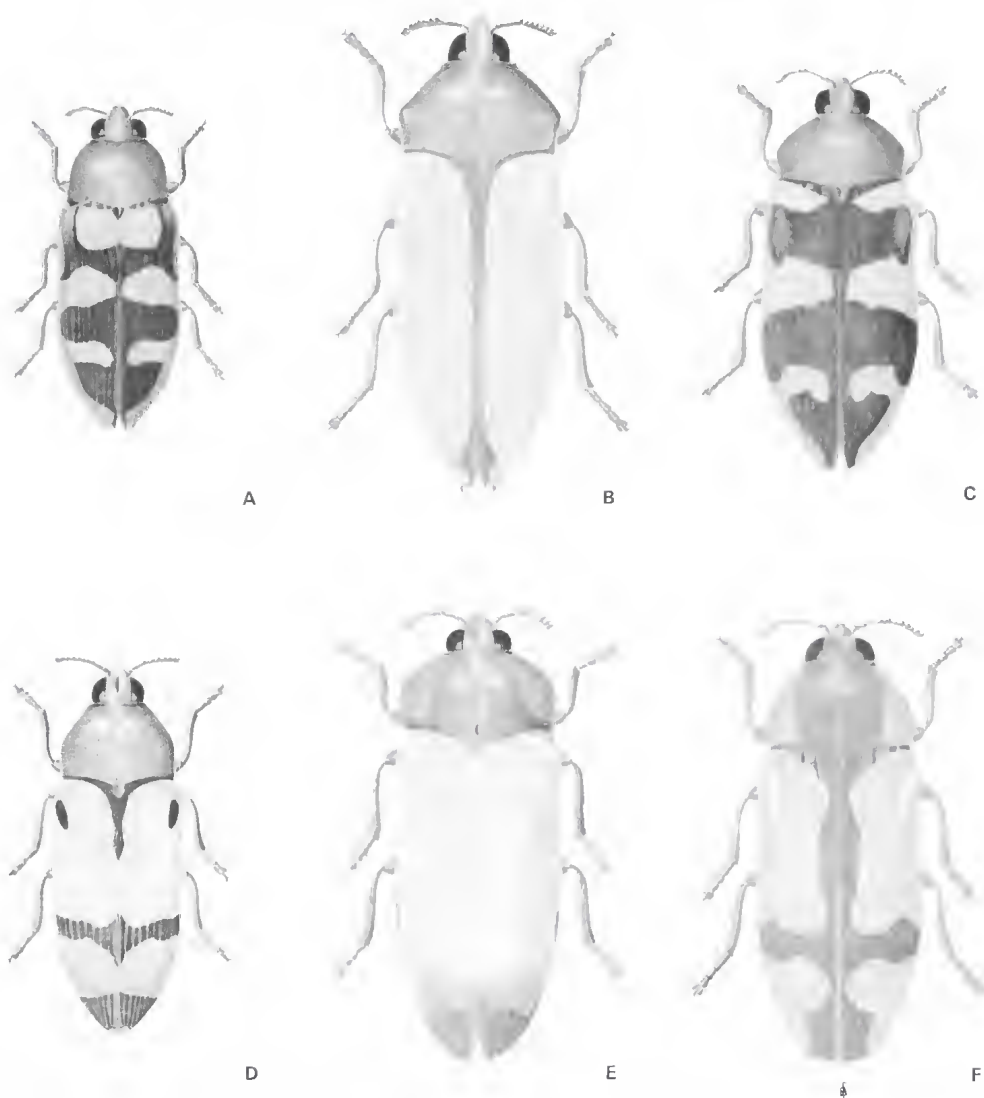


Fig. 2. x 3 natural size. A. *Stigmodera macmillani* sp. nov. B. *Stigmodera occidentalis* sp. nov. C. *Stigmodera ovata* sp. nov. D. *Stigmodera walfordi* sp. nov. E. *Stigmodera brooksi* sp. nov. F. *Stigmodera carnabyi* sp. nov.

glabrous, concave at upper edge. Elytra punctate-striate, intervals rounded, more so at base than at apex, with shallow punctures throughout their length; laterally angled out from base, rounded at shoulder, then concave until after middle, rounded to apex which is bispinose; sutural spine larger than marginal spine, indented and rounded between; apices barely diverging. Undersurface with close shallow punctures except on edges of abdominal segments which are glabrous, rest densely covered with long hair. Last abdominal segment truncate in male, rounded in female.

*Size:* Males  $12.6 \pm 1.01 \times 4.7 \pm 0.27$  mm (3).

Females  $13.0 \pm 0.38 \times 4.9 \pm 0.22$  mm (4).

*Distribution:* Western Australia.

*General remarks:* Grouped with *S. simulata* L. & G. but is a smaller species, pronotum glabrous and not bulbous at the sides, apical part of elytra more rounded. Named after Mr R. P. McMillan.

*Specimens examined:* Types only.

***Stigmodera (Castiarina) occidentalis* sp. nov.**

FIGS 2B, 4K

*Types:* Holotype: ♂, Stirling Range, W. Aust., 7.i.1971, K. & E. Carnaby, SAM I 21099. Allotype: ♀, 6 km west Wannamal, W. Aust.,

on *Nuytsia floribunda*, 10.xii.1970, S. Barker, SAM 1 21100. Paratypes: 1 ♂ & 2 ♀, Stirling Range, W. Aust., 7.i.1971, K. & E. Carnaby, SAM; 1 ♀, 1 km south Bull's Creek, W. Aust., on *Nuytsia floribunda*, 1.xii.1957, S. Barker, SAM; 1 ♀, Jarrahdale, W. Aust., on *Agonis* sp., 21.xi.1954, S. Barker, SAM; 4 ♀, 6 km west Wannamal, W. Aust., on *Nuytsia floribunda*, 10 & 15.xii.1970, S. Barker, SAM; 4 ♂ & 3 ♀, Stirling Range, W. Aust., 12.i.1971, K. & E. Carnaby, ANIC; 1 ♀, Perth, W. Aust., H. W. Brown, ANIC; 1 ♀, Mt Ragged, W. Aust., 30.x.1977, J. F. Lawrence, ANIC; 1 ♀, Stirling Range, W. Aust., 7.i.1971, K. & E. Carnaby, GA; 1 ♂, South Perth, W. Aust., 17.xii.1906, H. M. Gilles, NMV; 2 ♀, Kalamunda, W. Aust., H. W. Brown, NMV.

**Colour:** Male: Head, antennae, scutellum, undersurface and legs green, blue-green or blue. Female: Head, antennae, scutellum, undersurface and legs, green with yellow reflections. Elytra in both sexes yellow with narrow anterior margin dark blue and same along suture, expanded in preapical area to form diamond-shaped spot. Hairs silver.

**Shape and sculpture:** Head closely punctured, with shallow groove between eyes, ridged on inside of each antennal cavity, muzzle short. Pronotum closely punctured with large, shallow fovea in middle of each side towards base, small median basal fovea, small basal notch nearly one-half way from margin to centre, on each side; projecting forwards in middle of apical margin, basal margin bisinuate; laterally inflated before middle, rounded and tapered to apex, tapered then turned outwards at base. Scutellum heart-shaped, with few punctures, concave in middle. Elytra punctate-striate, intervals smooth and mainly flat; laterally barely angled outwards from base, rounded at shoulder and concave until after middle, tapered to apex which is bispinose; marginal spine larger than sutural, rounded and indented between. Undersurface smooth with shallow punctures and few short hairs; last abdominal segment truncate and slightly pressed in, in male, rounded in female.

**Size:** Males  $17.5 \pm 0.37 \times 6.4 \pm 0.13$  mm (7). Females  $18.9 \pm 0.37 \times 7.0 \pm 0.16$  mm (16).

**Distribution:** Western Australia.

**General remarks:** Grouped with *S. variopicta* Thomson but is larger than that species, has a bulbous pronotum and a constant sutural mark.

**Specimens examined:** Types only.

# *Stigmodera* (Castiarina) *ovata* sp. nov.

## FIG. 2C

**Types:** Holotype: ♂, Hamelin Pool, W. Aust., 9.ix.1970, K. & E. Carnaby, SAM 1 21101. Allotype: ♀, Marloo Stn, Wurarga, W. Aust., 1931-1941, A. Goerling, ANIC. Paratypes: 1 ♀, 61 km NE Wubin, W. Aust., 18.x.1977, K. T. Richards, WADA; 1 ♀, Lake Bryde, W. Aust., 5.xi.1972, K. & E. Carnaby, KC; 1 ♀, Hamelin Pool, W. Aust., 10.ix.1971, K. & E. Carnaby, KC.

**Colour:** Head dull bronze, apex of muzzle blue-green. Antennae dull bronze except basal segment which is blue-green. Pronotum and scutellum dull bronze. Elytra yellow with following black markings: narrow basal margin; pre-medial fascia not reaching margin; post-medial fascia, convex forwards; apical spade-shaped mark extending down suture to extreme tip and connected to second fascia along suture; red around entire margin. Undersurface: sternum dull bronze; abdomen red-brown; legs blue-green; hairs silver.

**Shape and sculpture:** Head closely punctured with wide median groove between eyes, ridged on inside of antennal cavities, muzzle moderately elongate. Pronotum closely punctured with small median basal depression and basal notch on each side closer to margin than centre; apical margin angled forwards at sides, projecting forwards in middle, basal margin angled forwards from centre on each side, two sides straight; laterally indented at base, rounded and bulbous 1/3 distance from base, tapered to apex. Scutellum heart-shaped, not punctured, indented at front edge in middle. Elytra punctate-striate, intervals convex, more so at base than apex, with rows of punctures; laterally angled outwards from base, rounded at shoulder, concave until after middle, rounded to apex which is without spines; apices diverging. Undersurface with close shallow punctures, moderately covered with short hair. Last abdominal segment truncate in male, rounded in female.

**Size:** Male  $13.9 \times 5.8$  mm (1). Females  $15.1 \pm 0.45 \times 6.2 \pm 0.28$  mm (4).

**Distribution:** Western Australia.

**General remarks:** A broad-bodied species which cannot be grouped with any other.

**Specimens examined:** Types only.

**Stigmodera (Castiarina) walfordi** sp. nov.

FIGS 2D, 4L

*Types:* Holotype: ♀, Paluma, Qld, 15.i.1967, A. Walford-Huggins, SAM I 21102. Paratypes: 1 ♂, no data, BM; 1 ♂, Qld, BM; 1 ♀, Townsville, Qld, 29.xii.1902, F. P. Dodd, BM; 1 ♀, North Qld, BM; 2 ♀, Paluma, Qld, 15.i.1967, A. Walford-Huggins, AWH; 3 ♀, Paluma, Qld, E. E. Adams, EA; 1 ♀, Ewan Rd, 14 km west Paluma, Qld, 20.xii.1968, J. A. G. Brooks, ANIC; 1 ♀, Mt Spec, Qld, 12.i.1969, J. G. Brooks, NMV.

*Colour:* Head, pronotum, scutellum bronze with purple reflections. Antennae bronze, 1st and 2nd segments with blue reflections, rest with purple reflections. Elytra yellow with following markings: all black with blue and/or purple reflections: an elongate mark on each shoulder angled inwards towards apex; post-medial fascia reaching margin from suture; mark covering whole apex; anterior margin and all or part along suture; most of margin red and most of area between fascia and apical mark red. Undersurface bronze with purple reflections at anterior part, abdomen testaceous. Legs: femora bronze with purple reflections, tibia same but with blue tips; tarsi blue; hairs silver.

*Shape and sculpture:* Head closely punctured with median groove between eyes, ridged on inside of each antennal cavity, muzzle short. Pronotum closely punctured with small basal fovea projecting forwards to middle as glabrous line and as impressed line from middle to apex; anterior margin projecting forwards in middle; basal margin bisinuate; laterally concave from base, bulbous and rounded before middle, rounded and narrowed to apex. Scutellum shield-shaped, concave in middle of front edge, without punctures. Elytra punctate-striate, intervals convex, more so at apex than at base, wrinkled more so at apex than at base; laterally slightly angled out from base, rounded at shoulder then concave until after middle, rounded to apex which is bispinose; spines small and rounded between; apices slightly diverging; apical margin sub-serrate. Undersurface: closely punctured; moderately hairy, hairs short. Last abdominal segment rounded in both sexes.

*Size:* Males 15.5 x 5.9 mm (2). Females 15.8 ± 0.20 x 6.0 ± 0.07 mm (10).

*Distribution:* Queensland.

*General remarks:* Grouped with *S. straminea* MacLeay but is larger than that species, has

ridges on insides of antennal cavities, the pronotum is closely punctured and is not bulbous and the elytral markings are different. Named after Mr A. Walford-Huggins.

*Specimens examined:* Types only.

**Stigmodera (Castiarina) brooksi** sp. nov.

FIGS 2E, 4M

*Types:* Holotype: ♂, 16 km west Running River, Paluma Range, Qld, 12.i.1969, E. E. Adams, SAM I 21103. Allotype: ♀, 16 km west Running River, Paluma Range, Qld, 12.i.1969, E. E. Adams, SAM I 21104. Paratypes: 3 ♂ & 2 ♀, Paluma, Qld, 15.i.1967, A. Walford-Huggins, AWH; 1 ♂, Ewan Rd, Mt Spec, Qld, 8.i.1969, J. G. Brooks, SAM; 1 ♂, Mt Spec, Qld, 16.i.1965, J. A. G. Brooks, JB; 2 ♀, Mt Spec, Qld, 3.i.1966 & 6.i.1966, J. A. G. Brooks, JB; 1 ♂, Ewan Rd, 19 km west Paluma, Qld, 3.i.1966, J. A. G. Brooks, ANIC; 1 ♂, Ewan Rd, 18 km west Paluma, Qld, 12.i.1966, J. A. G. Brooks, ANIC; 2 ♂, Mt Spec, Qld, 23.i.1966 & 5.i.1967, J. G. Brooks, BM; 1 ♂, Ewan Rd, Mt Spec, Qld, 12.i.1969, J. G. Brooks, NMV.

*Colour:* Head dark blue with green reflections. Antennae green. Pronotum bicolorous: brick-red at sides; black in middle with blue reflections at posterior margins. Elytra mainly yellow, with dark blue basal margin, red curved band towards apex, apex blue. Undersurface bicolorous: lateral prosternum bright red, last three abdominal segments predominantly same, laterally deep blue; hairs silver.

*Shape and sculpture:* Head with shallow punctures, median groove between eyes, ridged on inside of antennal cavities, muzzle short. Pronotum with shallow punctures; with median impressed line projecting forwards to apex from basal depression; basal notches on each side almost  $\frac{1}{2}$  way from margin to centre; projecting forwards in middle of apical margin; basal margin bisinuate; laterally inflated in middle, rounded anteriorly, straight at base. Scutellum heart-shaped, indented in middle of anterior margin, with punctures. Elytra striate-punctate, intervals slightly convex but smooth; laterally angled outwards from base, rounded at shoulder, concave before middle, rounded and tapered from middle to apex which has no spines; apices diverging slightly; apical margin sub-serrate. Undersurface: with shallow punctures, smooth; slightly hairy. Last abdominal segment rounded in both sexes.

*Size:* Males  $18.5 \pm 0.19 \times 7.1 \pm 0.08$  mm (11). Females  $19.7 \pm 0.42 \times 8.0 \pm 0.34$  mm (5).

*Distribution:* Queensland.

*General remarks:* Grouped with *S. analis* Saunders but is a larger species, has a red band on the apex of the elytra and bicolorous undersurface. Named after the late Mr J. G. Brooks.

*Specimens examined:* Types only.

***Stigmodera (Castiarina) carnabyi* sp. nov.**

FIGS 2F, 4N

*Types:* Holotype: ♂, Jerramungup, W. Aust., 15.I.1971, K. & E. Carnaby, ANIC. Allotype: ♀, Jerramungup, W. Aust., 2.xii.1970, K. & E. Carnaby, SAM 121105. Paratypes: 2 ♀, Jerramungup, W. Aust., 2.xii.1970, K. & E. Carnaby, 1 KC, 1 EA; 1 ♂ & 1 ♀, same data as holotype, ANIC.

*Colour:* Head dark blue. Antennae: basal two segments dark blue; remainder black with yellow-green reflections. Pronotum blue in middle, thick lateral margin red-brown. Scutellum black with blue reflections. Undersurface and legs deep blue. Hairs silver. Elytra red-brown with the following black markings with blue reflections; narrow basal border; post-medial fascia; apical mark; marks all connected down suture with slight bulge in pre-medial area.

*Shape and sculpture:* Head with close shallow punctures, shallow groove between eyes, muzzle short. Pronotum with shallow punctures: two flat patches near base and close to basal angles without punctures, small basal depression; projecting forwards in middle of apical margin; basal margin barely bisinuate; laterally rounded from base, expanded 1/3 distance from base then tapered to apex. Scutellum elongate, heart-shaped and depressed in middle of basal edge, without punctures. Elytra punctate-striate, intervals convex at base, flatter at apex, intervals wrinkled and punctured at shoulder and along margin; laterally slightly angled out from base, rounded at shoulder, then concave until after middle, then rounded to apex which is truncate and without spines; apices barely diverging. Undersurface with shallow punctures and few short hairs. Last abdominal segment truncate in male, rounded in female.

*Size:* Males  $16.3 \times 6.3$  mm (2). Females  $18.2 \pm 0.29 \times 7.2 \pm 0.13$  mm (4).

*Distribution:* Western Australia.

*General remarks:* Cannot be grouped with any other species. Named after Mr K. Carnaby.

*Specimens examined:* Types only.

***Stigmodera (Castiarina) uploni* sp. nov.**

FIGS 3A, 4O

*Types:* Holotype: ♂, 55 km NE Barrow Creek, N.T., 12.x.1972, M. S. Upton, ANIC. Allotype: ♀, 55 km NE Barrow Creek, N.T., 12.x.1972, M. S. Upton, ANIC. Paratypes: 1 ♂ & 3 ♀, same data as holotype, 1 ♀ SAM, 1 ♂ & 2 ♀ ANIC.

*Colour:* Head mainly coppery, apex of muzzle blue-green. Antennae black. Pronotum coppery at sides with triangular patch in middle dark blue, with greenish margin. Scutellum dark blue. Elytra yellow with following dark blue markings: premedial spot on each elytron; post-medial fascia reaching margin and expanded at margin and on suture; apical mark covering spines and connected along suture to fascia. Undersurface and legs coppery-violet; tarsi black; hairs silver.

*Shape and sculpture:* Head closely punctured with median groove between eyes, muzzle elongate. Pronotum closely punctured at sides, larger and deeper than in middle where they are sparse and shallow and surface glabrous; median basal depression and basal notches close to middle of each side; apical margin projecting forwards in middle; basal margin bisinuate; laterally tapered from base to apex, slightly rounded near apex. Scutellum shield-shaped, without punctures, concave in middle of front edge. Elytra punctate-striate, punctures large and very deep, intervals convex and evenly rounded and glabrous; laterally angled out from base, rounded at shoulder, then slightly concave until after middle, then rounded to apex which is bispinose; marginal spine greatly enlarged and rounded on outside, pointed inside with slight indentation to very small sutural spine; apices slightly diverging. Undersurface with shallow punctures, lightly haired; last abdominal segment rounded in both sexes; 5th tarsal segment is as long as combined length of other 4 segments.

*Size:* Males  $10.4 \times 3.8$  mm (2). Females  $10.7 \pm 0.28 \times 3.8 \pm 0.19$  mm (4).

*Distribution:* Northern Territory.

*General remarks:* Grouped with *S. quadrisulcata* Saunders but differs from that species being smaller, with enlarged marginal spine and elongate 5th tarsal segment. All specimens examined were collected dead from the insides



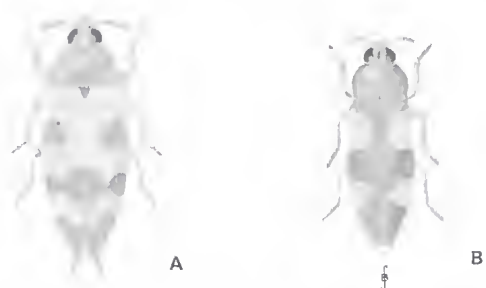


Fig. 3. x 3 natural size. A. *Stigmodera uptoni* sp. nov. B. *Stigmodera borealis* sp. nov.

of tubular road markers which also contained other dead insects. As spiders were not present they may have been dropped by predatory insects, possibly Asilid flies. Named after Mr M. S. Upton.

*Specimens examined*: N.T.; Types; 3 damaged specimens, same data as holotype ANIC.

***Stigmodera (Castiarina) borealis* sp. nov.**

FIG. 3B

*Types*: Holotype: ♀, 2200 m elevation, Mt Otto, New Guinea, 22.vi.1955, J. L. Gressitt; BPBM Bishop 10653.

*Colour*: Head, antennae, pronotum, scutellum, undersurface and legs dark blue. Elytra with following dark blue markings: thick basal fascia; thick fascia at middle; broad apical mark all connected broadly down suture; two large red spots on each elytron, one pre- and one post-medial, touching margin but not reaching suture. Undersurface hairs silver.

*Shape and sculpture*: Head shallowly punctured, glabrous, with median groove between

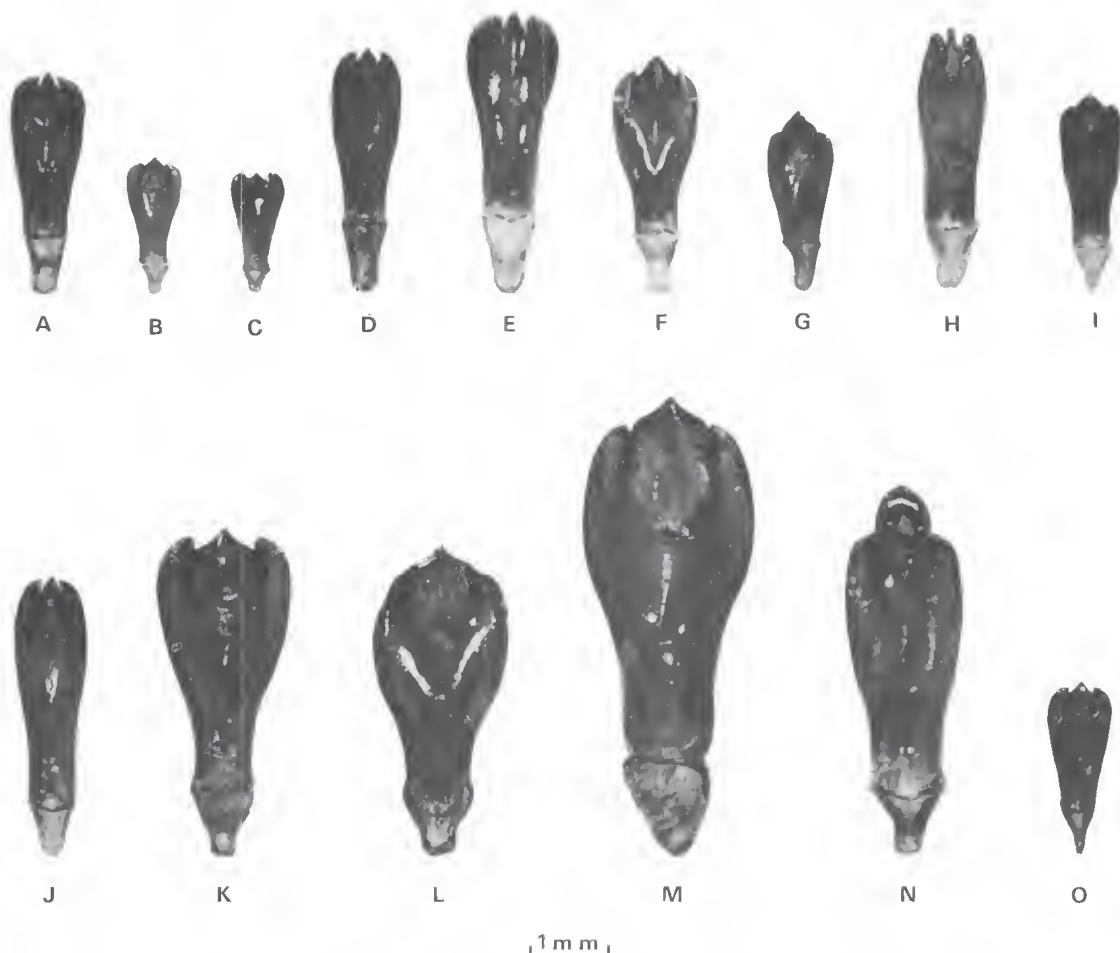


Fig. 4. Photomicrographs of male genitalia of the following *Stigmodera (Castiarina)* species: A. *planipes*, B. *crockeriae*, C. *nigriceps*, D. *metallica*, E. *bakeri*, F. *richardsi*, G. *subacuticeps*, H. *georgiana*, I. *verdiceps*, J. *macmillani*, K. *occidentalis*, L. *walfordi*, M. *brooksi*, N. *carnabyi*, O. *uptoni*.

eyes, muzzle short. Pronotum shallowly punctured and glabrous, punctures larger at sides than in middle, with median basal depression and shallow rounded depression on each side near base; anterior margin projecting forwards broadly in middle; basal margin bisinuate; laterally pinched in at base, rounded until after middle and rounded to apex. Scutellum heart-shaped, depressed in middle of anterior margin, glabrous. Elytra punctate-striate intervals convex, more so at base than at apex; laterally angled out from base, rounded at shoulder, then concave until after middle, rounded to

apex which is bispinose; marginal spine larger than sutural spine, interval between comparatively broad and straight; apical half of margin serrate; apices barely diverging. Undersurface shallowly punctured and moderately covered with short hair. Last abdominal segment broadly truncate in female.

*Size:* Female 8.7 x 2.8 mm (1).

*Distribution:* New Guinea.

*General remarks:* Cannot be grouped with any other species.

*Specimens examined:* Type only.

### Sub-genus CASTIARINA LaPorte & Gory 1837

- abdominalis* Saunders 1868, *J. Linn. Soc.* 9, 467 . . . . . W.A., S.A., V., Q., N.S.W.
- imica* Kerremans 1898, *Annls Soc. ent. Belg.* 42, 150 . . . . . Q., N.S.W.
- acuminata* Kerremans 1898, *Annls Soc. ent. Belg.* 42, 142 . . . . . N.S.W.
- acuta* Deuquet 1956, *Proc. Linn. Soc. N.S.W.* 81, 154 . . . . . W.A.
- acuticeps* Saunders 1869, *Insect. Saund.* 3, 19 . . . . . Q.
- odzwahni* Obenberger 1928, *Arch. Naturgesch.* 1926, 92, 330 . . . . . Q.
- acuticollis* Carter 1916, *Trans. R. Soc. S. Aust.* 40, 133 . . . . . Q.
- adamsi* Deuquet 1957, *Proc. Linn. Soc. N.S.W.* 82, 189 . . . . . S.A., V., N.S.W., T.
- adelaidae* Hope 1846, *Trans. ent. Soc. Lond.* 4, 212 . . . . . V., N.S.W.
- aeneicornis* Saunders 1868, *J. Linn. Soc.* 9, 472 . . . . . W.A.
- laudabilis* Kerremans 1898, *Annls Soc. ent. Belg.* 42, 146 . . . . . Q.
- aeraticollis* Carter 1930, *Proc. Linn. Soc. N.S.W.* 55, 182 . . . . . W.A.
- affabilis* Kerremans 1898, *Annls Soc. ent. Belg.* 42, 141 . . . . . Q.
- simplex* Kerremans 1902, *Genera Insect.* 12, 210 . . . . . W.A., S.A.
- alexandri* Carter 1916, *Trans. R. Soc. S. Aust.* 40, 119 . . . . . N.S.W., Q.
- alternecosta* Thomson 1879, *Typ. Bufr. App.* 1a, 35 . . . . . W.A.
- alaeris* Kerremans 1890, *Bull. Soc. ent. Belg.* 1890, 47 . . . . . N.S.W., Q.
- disjecta* Kerremans 1890, *Bull. Soc. ent. Belg.* 1890, 48 . . . . .
- alternecostata* Kerremans 1892, *Mém Soc. r. ent. Belg.* 1, 143 . . . . .
- quadrinotata* Blackburn 1892, *Trans. R. Soc. S. Aust.* 15, 49 . . . . .
- libens* Kerremans 1902, *Genera Insect.* 12, 209 . . . . . W.A.
- amabilis* L & G 1837, *Mon. Bufr.* 2, 19 . . . . . S.A., V., N.S.W., Q.
- amplipennis* Saunders 1868, *J. Linn. Soc.* 9, 480 . . . . . Q.
- amplipennis* Carter 1931, *Aust. Zool.* 6, 107 . . . . . W.A.
- analis* Saunders 1869, *Insect. Saund.* 3, 7 . . . . . V., N.S.W.
- marginicervex* Thomson 1879, *Typ. Bufr. App.* 1a, 31 . . . . .
- anchoralis* L & G 1837, *Mon. Bufr.* 2, 26 . . . . . V.
- arborifera* Blackburn 1892, *Trans. R. Soc. S. Aust.* 15, 51 . . . . . N.S.W.
- agrestis* Kerremans 1898, *Annls Soc. ent. Belg.* 42, 140 . . . . . N.S.W.
- tantilla* Obenberger 1922, *Arch. Naturgesch.* 1922, 88, 116 . . . . . N.S.W.
- andersoni* L & G 1837, *Mon. Bufr.* 2, 25 . . . . . V., N.S.W.
- verax* Kerremans 1898, *Annls Soc. ent. Belg.* 42, 146 . . . . .
- dicax* Obenberger 1922, *Arch. Naturgesch.* 1922, 88, 119 . . . . .
- argillacea* Carter 1916, *Trans. R. Soc. S. Aust.* 40, 126 . . . . . V.
- ariel* Carter 1930, *Proc. Linn. Soc. N.S.W.* 55, 533 . . . . . N.S.W.
- armata* Thomson 1879, *Typ. Bufr. App.* 1a, 31 . . . . . N.S.W.
- theryi* Carter 1924, *Proc. Linn. Soc. N.S.W.* 49, 534 . . . . .
- assimilis* Hope 1846, *Trans. ent. Soc. Lond.* 4, 212 . . . . . V., N.S.W.
- timida* Kerremans 1898, *Annls Soc. ent. Belg.* 42, 147 . . . . .
- puerilis* Kerremans 1898, *Annls Soc. ent. Belg.* 42, 147 . . . . .
- atricollis* Saunders 1869, *Insect. Saund.* 3, 22 . . . . . W.A., S.A.
- tripartita* Kerremans 1900, *Annls Soc. ent. Belg.* 44, 317 . . . . .
- atrocoerulea* Kerremans 1890, *Bull. Soc. ent. Belg.* 1890, 47 . . . . . A.
- atrontata* Waterhouse 1874, *Trans. R. ent. Soc. Lond.* 1874, 542 . . . . . Q.

<i>attenuata</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 132	V.
<i>audus</i> Saunders 1869, <i>Insect. Saund.</i> 3, 5	W.A.
<i>aurantiacea</i> Carter 1931, <i>Aust. Zool.</i> 6, 346	V.
<i>aureola</i> Carter 1913, <i>Proc. Linn. Soc. N.S.W.</i> 37, 499	W.A.
<i>auripennis</i> Barker 1979, <i>Trans. R. Soc. S. Aust.</i> 103, 2	Q.
<i>auriferu</i> Carter 1922, <i>Proc. Linn. Soc. N.S.W.</i> 47, 68	
<i>aurolinibata</i> Carter 1922, <i>Proc. Linn. Soc. N.S.W.</i> 47, 68	Q.
<i>australasae</i> L. & G 1837, <i>Mon. Bupr.</i> 2, 32	S.A., V., T., N.S.W.
<i>melbournensis</i> Thomson 1879, <i>Typ. Bupr. App.</i> 1a, 34	
<i>bakeri</i> Barker 1979, <i>Trans. R. Soc. S. Aust.</i> 103, 5	W.A.
<i>balteata</i> Saunders 1869, <i>Insect. Saund.</i> 3, 16	N.S.W., Q.
<i>postica</i> Thomson 1879, <i>Typ. Bupr. App.</i> 1a, 37	
<i>balthasari</i> Obenberger 1928, <i>Arch. Naturgesch.</i> 1926, 92, 330	W.A.
<i>baziliscu</i> Obenberger 1933, <i>Čas. čsl. Spol. ent.</i> 30, 105	W.A.
<i>truncata</i> Carter 1936, <i>Proc. Linn. Soc. N.S.W.</i> 61, 100	
<i>bella</i> Saunders 1871, <i>Cat. Bupr. Syn. Syst.</i> , 71	V., N.S.W., Q.
<i>cruentata</i> L. & G 1837, <i>Mon. Bupr.</i> 2, 29	
<i>bifasciata</i> (Hope) 1831, <i>Gray's Zoologica Miscellany</i> 1, 25	V., N.S.W.
<i>bicincta</i> (Boisduval) 1835, <i>Voyage de l'Astrolabe</i> , 89	
<i>bicingulata</i> L. & G 1837, <i>Mon. Bupr.</i> 2, 30	
<i>dejeani</i> Gory 1841, <i>Mon. Bupr.</i> 4, err. add.	
<i>bicinctu</i> Gory 1841, <i>Mon. Bupr.</i> 4, 131	
<i>trispinosa</i> Kerremans 1890, <i>Bull. Soc. ent. Belg.</i> 1890, 43	
<i>biguttata</i> MacLeay 1863, <i>Trans. ent. Soc. N.S.W.</i> 1, 24	W.A., N.T., Q.
<i>trimaculata</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 482	
<i>tetraeregine</i> Blackburn 1893, <i>Trans. R. Soc. S. Aust.</i> 17, 295	
<i>triangulosa</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 137	
<i>broomensis</i> Carter 1934, <i>Proc. Linn. Soc. N.S.W.</i> 59, 253	
<i>binotata</i> Saunders 1871 <i>Cat. Bupr. Syn. Syst.</i> , 72	N.S.W., Q.
<i>hinnicuhua</i> Saunders 1869, <i>Insect. Saund.</i> 3, 7	
<i>blackburni</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 118	S.A.
<i>hoganii</i> Carter 1930, <i>Proc. Linn. Soc. N.S.W.</i> 55, 534	V., N.S.W.
<i>boonyia</i> Carter 1933, <i>Proc. Linn. Soc. N.S.W.</i> 58, 162	W.A.
Barker & Edward 1963, <i>West. Aust. Nat.</i> 8, 170	
<i>boonyia</i> Carter 1933, <i>Proc. Linn. Soc. N.S.W.</i> 58, 162	
<i>borealis</i> Barker 1979, <i>Trans. R. Soc. S. Aust.</i> 103, 13	New Guinea
<i>bremei</i> (Hope) 1845, <i>Trans. ent. Soc. Lond.</i> 4, 102	V., N.S.W.
<i>brooksii</i> Barker 1979, <i>Trans. R. Soc. S. Aust.</i> 103, 11	Q.
<i>browni</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 121	W.A.
<i>brutella</i> Thomson 1879, <i>Typ. Bupr. App.</i> 1a, 37	V., N.S.W., Q.
<i>graphisura</i> Thomson 1879, <i>Typ. Bupr. App.</i> 1a, 37	
<i>uniformis</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 145	
<i>victrix</i> Obenberger 1922, <i>Arch. Naturgesch.</i> 1922, 88, 119	
<i>burchelli</i> L. & G 1837, <i>Mon. Bupr.</i> 2, 33	S.A., V., N.S.W., Q.
<i>callubriensis</i> Carter 1931, <i>Aust. Zool.</i> 6, 367	N.S.W.
<i>campestris</i> Blackburn 1897, <i>Trans. R. Soc. S. Aust.</i> 21, 31	Q.
<i>dehnta</i> Kerremans 1902, <i>Genera Insect.</i> 12, 208	
<i>saundersiana</i> Obenberger 1922, <i>Arch. Naturgesch.</i> 1922, 88, 120.	
<i>canaliculata</i> Blackburn 1892, <i>Trans. R. Soc. S. Aust.</i> 15, 51	N.S.W., Q.
<i>parvula</i> Deuquet, 1956, <i>Proc. Linn. Soc. N.S.W.</i> 81, 155	
<i>curinata</i> MacLeay 1863, <i>Trans. ent. Soc. N.S.W.</i> 1, 26	Q.
<i>opacula</i> Obenberger 1922, <i>Arch. Naturgesch.</i> 1922, 88, 121	
<i>carminea</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 474	W.A., S.A., V., N.S.W.
<i>felix</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 142	
<i>caruhyi</i> Barker 1979, <i>Trans. R. Soc. S. Aust.</i> 103, 12	W.A.
<i>castelnaudi</i> Saunders 1869, <i>Insect. Saund.</i> 3, 9	W.A., S.A., V.
<i>thomsoniana</i> Masters 1886, <i>Cat. Coleop.</i> , 97	
<i>castelnaudi</i> Thomson 1878, <i>Typ. Bupr.</i> , 53	
<i>laportei</i> Kerremans 1890, <i>Bull. Soc. ent. Belg.</i> 1890, 42	
<i>cincta</i> Blackburn 1890, <i>Trans. R. Soc. S. Aust.</i> 13, 157	W.A.
<i>rubrocincta</i> Kerremans 1890, <i>Bull. Soc. ent. Belg.</i> 1890, 46	
<i>cinnumonea</i> MacLeay 1863, <i>Trans. ent. Soc. N.S.W.</i> 1, 25	Q.

<i>clancula</i> Obenberger 1922, <i>Arch. Naturgesch.</i> 1922, 88, 117	Q.
<i>clarki</i> Carter 1922, <i>Proc. Linn. Soc. N.S.W.</i> 47, 69	W.A.
<i>coccinata</i> (Hope) 1845, <i>Trans. ent. Soc. Lond.</i> 4, 102	W.A.
<i>elegantula</i> White 1846, <i>Discoveries in Australia</i> , J. Lort Stokes 1, 507	
<i>coeruleipes</i> Saunders 1869, <i>Insect. Saund.</i> 3, 13	N.S.W.
<i>cognata</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 136	N.S.W.
<i>colligens</i> Kerremans 1890, <i>Bull. Soc. ent. Belg.</i> 1890, 44	Q.
<i>colorata</i> Hope 1847, <i>Trans. ent. Soc. Lond.</i> 4, 283	S.A., V.
<i>commixta</i> Carter 1924, <i>Proc. Linn. Soc. N.S.W.</i> 49, 21	N.S.W.
<i>confinis</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 151	Q.
<i>confusa</i> Waterhouse 1874, <i>Trans. R. ent. Soc. Lond.</i> 1874, 541	Q.
<i>apicenotata</i> Carter 1930, <i>Proc. Linn. Soc. N.S.W.</i> 55, 533	
<i>convexa</i> Carter 1913, <i>Proc. Linn. Soc. N.S.W.</i> 37, 506	W.A., S.A.
<i>puteolata</i> Carter 1939, <i>Proc. Linn. Soc. N.S.W.</i> 64, 300	
<i>cordifer</i> Kerremans 1890, <i>Bull. Soc. ent. Belg.</i> 1890, 44	W.A., S.A.
<i>costulis</i> Saunders 1869, <i>Insect. Saund.</i> 3, 14	N.S.W.
<i>costata</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 470	N.S.W.
<i>costipennis</i> Saunders 1869, <i>Insect. Saund.</i> 3, 13	N.S.W.
<i>crenata</i> (Donovan) 1805, <i>Epitome Insects New Holland</i> pl. 7, fig. 3	W.A., S.A., V., T., N.S.W., Q.
<i>umphicroa</i> (Boisduval) 1835, <i>Voyage de l'Astrolabe</i> , 90	
<i>sexspilota</i> L & G 1837, <i>Mon. Bupr.</i> 2, 35	
<i>sieboldi</i> L & G 1837, <i>Mon. Bupr.</i> 2, 38	
<i>croccolor</i> L & G 1937, <i>Mon. Bupr.</i> 2, 44	W.A.
<i>consanguinea</i> Saunders 1868, <i>Trans. R. ent. Soc. Lond.</i> 1868, 49	
<i>crockerae</i> Barker 1979, <i>Trans. R. Soc. S. Aust.</i> 103, 4	W.A., S.A.
<i>cruenta</i> L & G 1837, <i>Mon. Bupr.</i> 2, 29	N.S.W.
<i>cruentata</i> (Kirby) 1818, <i>Trans. Linn. Soc.</i> 12, 455	S.A., V., N.S.W., Q.
<i>virgata</i> Hope 1847, <i>Trans. ent. Soc. Lond.</i> 4, 283	
<i>coeruleiventris</i> Saunders 1869, <i>Insect. Saund.</i> 3, 20	
<i>haroldi</i> Saunders 1871, <i>Cat. Bupr. Syn. Syst.</i> , 74	
<i>viridiventris</i> Saunders 1869, <i>Insect. Saund.</i> 3, 20	
<i>uvuloga</i> Thomson 1879, <i>Typ. Bupr. App.</i> 1a, 35	
<i>stillata</i> Blackburn 1890, <i>Trans. R. Soc. S. Aust.</i> 13, 148	
<i>coerulea</i> Kerremans 1892, <i>Mém. Soc. r. ent. Belg.</i> 1, 146	
<i>coelestis</i> Kerremans 1890, <i>Bull. Soc. ent. Belg.</i> 1890, 48	
<i>crux</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 473	S.A., V.
<i>cupida</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 138	N.S.W., Q.
<i>cupreoflava</i> Saunders 1869, <i>Insect. Saund.</i> 3, 10	W.A., S.A.
<i>magnetica</i> Carter 1933, <i>Proc. Linn. Soc. N.S.W.</i> 58, 161	
<i>cupricauda</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 475	N.S.W.
<i>cupricollis</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 470	N.S.W., Q.
<i>alternozona</i> Thomson 1878, <i>Typ. Bupr.</i> , 54	
<i>deyrollei</i> Thomson 1879, <i>Bull. Soc. ent. Fr.</i> 9, 125	
<i>julia</i> Thomson 1879, <i>Typ. Bupr. App.</i> 1a, 31	
<i>chobouti</i> Théry 1895, <i>Bull. ent. Soc. Fr.</i> 1895, 328	
<i>fairmairei</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 140	
<i>cyanipes</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 468	W.A., S.A.
<i>marginicollis</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 469	
<i>bifasciatella</i> Obenberger 1922, <i>Arch. Naturgesch.</i> 1922, 88, 115	
<i>cydista</i> Rainbow 1904, <i>Rec. Aust. Mus.</i> 5, 246	N.S.W., Q.
<i>mediana</i> Deuquet 1963, <i>Proc. Linn. Soc. N.S.W.</i> 88, 337	
<i>cylindracea</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 476	W.A.
<i>dunesi</i> Obenberger 1933, <i>Čas. ěsl. Spol. entom.</i> 30, 73	Q.
<i>dawsonensis</i> Blackburn 1890, <i>Trans. R. Soc. S. Aust.</i> 13, 155	Q.
<i>deceunmaculata</i> (Kirby) 1818, <i>Trans. Linn. Soc.</i> 12, 456	W.A., S.A., V., N.S.W., Q.
<i>inequalis</i> Kerremans 1902, <i>Genera Insect.</i> 12, 207	
<i>pieta malevana</i> Carter 1931, <i>Aust. Zool.</i> 6, 340	
<i>decipiens</i> (Westwood) 1837, <i>Mag. Zool. Bot.</i> 1, 251	Q.
<i>capucina</i> Thomson 1856, <i>Rev. Mag. Zool.</i> 8, 116	
<i>tricarinata</i> MacLeay 1863, <i>Trans. ent. Soc. N.S.W.</i> 1, 29	
<i>octocostata</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 130	
<i>delectabilis</i> Hope 1847, <i>Trans. ent. Soc. Lond.</i> 4, 284	S.A., V., N.S.W.



<i>delicatula</i> Kerremans 1902, <i>Genera Insect.</i> 12, 209	Q.
<i>delta</i> Thomson 1879, <i>Typ. Bupr. App.</i> 1a, 33	N.S.W., Q.
<i>deceptor</i> Kerremans 1902, <i>Genera Insect.</i> 12, 209	
<i>denueti</i> Carter 1927, <i>Proc. Linn. Soc. N.S.W.</i> 52, 225	N.S.W.
<i>dimidiata</i> Carter 1908, <i>Proc. Linn. Soc. N.S.W.</i> 33, 422	V., T., N.S.W., Q.
<i>leal</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 136	
<i>dorsalis</i> Obenberger 1922, <i>Arch. Naturgesch.</i> 1922, 88, 118	
<i>discoidea</i> Carter 1931, <i>Aust. Zool.</i> 6, 343	N.S.W.
<i>dispar</i> Blackburn 1892, <i>Trans. R. Soc. S. Aust.</i> 15, 50	Q.
<i>semenovi</i> Obenberger 1928, <i>Arch. Naturgesch.</i> 1926, 92, 329	
<i>distincta</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 473	Q.
<i>serualis</i> Blackburn 1892, <i>Trans. R. Soc. S. Aust.</i> 15, 47	
<i>baliola</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 144	
<i>deliciosa</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 145	
<i>distinguenda</i> Saunders 1869, <i>Insect. Saund.</i> 3, 9	V.
<i>differeus</i> Carter 1931, <i>Aust. Zool.</i> 6, 364	
<i>doddi</i> Carter 1913, <i>Proc. Linn. Soc. N.S.W.</i> 37, 505	Q.
<i>domina</i> Carter 1931, <i>Aust. Zool.</i> 6, 344	Q.
<i>dryadula</i> Carter 1930, <i>Proc. Linn. Soc. N.S.W.</i> 55, 535	New Guinea
<i>duaringae</i> Carter 1929, <i>Proc. Linn. Soc. N.S.W.</i> 54, 68	Q.
<i>elderi</i> Blackburn 1892, <i>Trans. R. Soc. S. Aust.</i> 16, 36	W.A.
<i>diversa</i> Kerremans 1900, <i>Annls Soc. ent. Belg.</i> 44, 317	
<i>elongata</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 480	W.A.
<i>equina</i> Blackburn 1892, <i>Trans. R. Soc. S. Aust.</i> 15, 48	S.A.
<i>eremita</i> Blackburn 1890, <i>Trans. R. Soc. S. Aust.</i> 13, 153	W.A.
<i>erubescens</i> Blackburn 1901, <i>Trans. R. Soc. S. Aust.</i> 25, 23	Thurs. Isl.
<i>horni</i> Kerremans 1908, <i>Di. ent. Z.</i> 6, 64	
<i>unimaculata</i> Carter 1908, <i>Proc. Linn. Soc. N.S.W.</i> 33, 420	
<i>erythromelas</i> (Boisduval) 1835, <i>Voyage de l'Astrolabe</i> , 75	V., T., N.S.W.
<i>longula</i> Blackburn 1892, <i>Trans. R. Soc. S. Aust.</i> 15, 54	
<i>cicerini</i> Obenberger 1928, <i>Arch. Naturgesch.</i> 1926, 92, 331	
<i>erythroptera</i> (Boisduval) 1835, <i>Voyage de l'Astrolabe</i> , 88	V., N.S.W., Q.
<i>nigroterminata</i> Carter 1934, <i>Proc. Linn. Soc. N.S.W.</i> 59, 257	
<i>festiva</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 138	Q.
<i>filiformis</i> Blackburn 1892, <i>Trans. R. Soc. S. Aust.</i> 15, 217	W.A.
<i>proteusa</i> Obenberger 1928, <i>Arch. Naturgesch.</i> 1926, 92, 332	
<i>flava</i> Saunders 1869, <i>Insect. Saund.</i> 3, 17	W.A. S.A., V.
<i>flavescens</i> Masters 1886, <i>Cat. Coleop.</i> , 86	
<i>flava</i> Thomson 1878, <i>Typ. Bupr.</i> , 55	
<i>flavidula</i> Kerremans 1890, <i>Bull. Soc. ent. Belg.</i> 1890, 47	
<i>flaviceps</i> Carter 1913, <i>Proc. Linn. Soc. N.S.W.</i> 37, 504	W.A.
<i>flavipicta</i> (Boisduval) 1835, <i>Voyage de l'Astrolabe</i> , 92	S.A., V., T., N.S.W., Q.
<i>bicolor</i> L & G 1837, <i>Mon. Bupr.</i> 2, 39	
<i>flavovaria</i> Saunders 1871, <i>Cat. Bupr. Syn. Syst.</i> , 74	
<i>flavopicta</i> L & G 1837, <i>Mon. Bupr.</i> 2, 44	
<i>flavopurpurea</i> Carter 1908, <i>Proc. Linn. Soc. N.S.W.</i> 33, 421	N.S.W.
<i>montigena</i> Oke 1928, <i>Proc. Linn. Soc. N.S.W.</i> 53, 25	
<i>flavosignata</i> MacLeay 1863, <i>Trans. ent. Soc. N.S.W.</i> 1, 30	Q.
<i>circumflexa</i> Obenberger 1922, <i>Arch. Naturgesch.</i> 1922, 88, 121	
<i>flavoviridis</i> Carter 1927, <i>Proc. Linn. Soc. N.S.W.</i> 52, 227	N.S.W.
<i>flindersi</i> Carter 1922, <i>Proc. Linn. Soc. N.S.W.</i> 47, 70	S.A.
<i>fossoria</i> Carter 1927, <i>Proc. Linn. Soc. N.S.W.</i> 52, 226	V.
<i>fulviventris</i> MacLeay 1863, <i>Trans. ent. Soc. N.S.W.</i> 1, 22	V., N.S.W., Q.
<i>ochreiventris</i> Saunders 1869, <i>Insect. Saund.</i> 3, 8	
<i>guttigera</i> Blackburn 1901, <i>Trans. R. Soc. S. Aust.</i> 25, 24	
<i>mackayana</i> Carter 1930, <i>Proc. Linn. Soc. N.S.W.</i> 55, 536	
<i>gurravillae</i> Carter 1931, <i>Aust. Zool.</i> 6, 348	N.S.W.
<i>generosa</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 150	N.S.W., Q.
<i>gentilis</i> Kerremans 1900, <i>Annls Soc. ent. Belg.</i> 44, 316	N.S.W.
<i>georgiana</i> Barker 1979, <i>Trans. R. Soc. S. Aust.</i> 103, 7	W.A.
<i>gibbicollis</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 470	V., N.S.W., Q.
<i>fascigera</i> Kerremans 1890, <i>Bull. Soc. ent. Belg.</i> 1890, 42	

<i>goerlingi</i> Carter 1937, <i>Trans. R. Soc. S. Aust.</i> 61, 125	W.A.
<i>gracilior</i> Carter 1915, <i>Proc. Linn. Soc. N.S.W.</i> 40, 82	Q.
<i>gracilis</i> Carter 1913, <i>Proc. Linn. Soc. N.S.W.</i> 37, 508	
<i>grata</i> Saunders 1869, <i>Insect. Saund.</i> 3, 11	S.A., V., N.S.W., Q.
<i>guttata</i> Blackburn 1890, <i>Trans. R. Soc. S. Aust.</i> 13, 158	S.A.
<i>guttaticollis</i> Blackburn 1890, <i>Trans. R. Soc. S. Aust.</i> 13, 157	Q.
<i>consularis</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 149	
<i>guttifera</i> Obenberger 1922, <i>Arch. Naturgesch.</i> 1922, 88, 121	Q.
<i>harlsoni</i> Carter 1925, <i>Proc. Linn. Soc. N.S.W.</i> 50, 230	N.S.W.
<i>harslettiae</i> Deuquet 1957, <i>Proc. Linn. Soc. N.S.W.</i> 82, 190	Q.
<i>haswelli</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 128	Q.
<i>helmsi</i> Carter 1906, <i>Proc. Linn. Soc. N.S.W.</i> 31, 259	N.S.W.
<i>hillaris</i> Hope 1846, <i>Trans. ent. Soc. Lond.</i> 4, 213	S.A., V., N.S.W., Q.
<i>hirmdicauda</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 137	W.A.
<i>hoblerne</i> Carter 1922, <i>Proc. Linn. Soc. N.S.W.</i> 47, 70	N.S.W., Q.
<i>mastersi</i> MacLeay 1872, <i>Trans. ent. Soc. N.S.W.</i> 2, 245	
<i>hoffmanseggi</i> Hope 1846, <i>Trans. ent. Soc. Lond.</i> 4, 211	W.A.
<i>humilis</i> Deuquet 1947, <i>Proc. Linn. Soc. N.S.W.</i> 72, 201	N.S.W., Q.
<i>ignea</i> Blackburn 1892, <i>Trans. R. Soc. S. Aust.</i> 15, 219	S.A.
<i>ignota</i> Saunders 1869, <i>Insect. Saund.</i> 3, 12	V., N.S.W., Q.
<i>imitator</i> Carter 1930, <i>Proc. Linn. Soc. N.S.W.</i> 55, 180	N.S.W., Q.
<i>immaculata</i> Carter 1915, <i>Proc. Linn. Soc. N.S.W.</i> 40, 81	W.A.
<i>impressicollis</i> MacLeay 1863, <i>Trans. ent. Soc. N.S.W.</i> 1, 32	N.S.W., Q.
<i>inconspicua</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 476	V., N.S.W.
<i>indistincta</i> Saunders 1869, <i>Insect. Saund.</i> 3, 11	V., N.S.W.
<i>inermis</i> Kerremans 1890, <i>Bull. Soc. ent. Belg.</i> 1890, 45	A.
<i>nova</i> Kerremans 1902, <i>Genera Insect.</i> 12, 208	
<i>insculpta</i> Carter 1934, <i>Proc. Linn. Soc. N.S.W.</i> 59, 255	T.
<i>insignicollis</i> Blackburn 1900, <i>Trans. R. Soc. S. Aust.</i> 24, 45	W.A.
<i>insignis</i> Blackburn 1892, <i>Trans. R. Soc. S. Aust.</i> 15, 217	V., N.S.W.
<i>caudata</i> Kerremans 1900, <i>Annls Soc. ent. Belg.</i> 44, 316	
<i>insularis</i> Blackburn 1897, <i>Trans. R. Soc. S. Aust.</i> 21, 30	T.
<i>intacta</i> Carter 1930, <i>Proc. Linn. Soc. N.S.W.</i> 55, 181	Q.
<i>interstitialis</i> Carter 1931, <i>Aust. Zool.</i> 6, 345	V.
<i>jekelli</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 467	W.A., S.A., V., N.S.W.
<i>jospilota</i> L & G 1837, <i>Mon. Bupr.</i> 2, 35	W.A., S.A., V., N.S.W.
<i>lacerta</i> Obenberger 1933, <i>Čas čsl. Spol. ent.</i> 30, 109	
<i>jubata</i> Blackburn 1890, <i>Trans. R. Soc. S. Aust.</i> 13, 150	T.
<i>tasmani</i> Obenberger 1928, <i>Arch. Naturgesch.</i> 1926, 92, 328	
<i>pratensis</i> Carter 1934, <i>Proc. Linn. Soc. N.S.W.</i> 59, 255	
<i>jucunda</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 481	N.S.W., Q.
<i>observans</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 139	
<i>kerremansi</i> Blackburn 1890, <i>Trans. R. Soc. S. Aust.</i> 13, 147	N.S.W., Q.
<i>apicalis</i> Kerremans 1890, <i>Bull. Soc. ent. Belg.</i> 1890, 45	
<i>kershawi</i> Carter 1924, <i>Proc. Linn. Soc. N.S.W.</i> 49, 522	W.A., S.A., V., N.S.W.
<i>kirbyi</i> (Guerin) 1830, <i>Voyage Coquille</i> , 65	W.A., S.A., V., N.S.W.
<i>lachia</i> Kerremans 1898, <i>Annls. Soc. ent. Belg.</i> 42, 153	
<i>klugi</i> L & G 1837, <i>Mon. Bupr.</i> 2, 27	N.S.W.
<i>luena</i> Thomson 1879, <i>Typ. Bupr. App.</i> 1a, 36	W.A.
<i>electa</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 154	
<i>verna</i> Carter 1937, <i>Trans. R. Soc. S. Aust.</i> 61, 126	
<i>kaszabi</i> Pochon 1967, <i>Annls hist.-nat. Mus. Natn. hung.</i> 59, 280	
<i>laevinotata</i> Carter 1934, <i>Proc. Linn. Soc. N.S.W.</i> 59, 254	N.S.W., Q.
<i>latipes</i> Carter 1924, <i>Proc. Linn. Soc. N.S.W.</i> 49, 21	N.S.W., Q.
<i>lepada</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 129	W.A.
<i>liliputana</i> Thomson 1857, <i>Arch. Ent.</i> 1, 114	N.S.W., Q.
<i>mastersi</i> (MacLeay) 1872, <i>Trans. ent. Soc. N.S.W.</i> 2, 241	
<i>ocularis</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 155	
<i>longicollis</i> Saunders 1869, <i>Insect. Saund.</i> 3, 21	W.A.
<i>desideria</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 127	
<i>bicolorrella</i> Obenberger 1928, <i>Arch. Naturgesch.</i> 1926, 92, 329	
<i>prolongata</i> Carter 1935, <i>Proc. Linn. Soc. N.S.W.</i> 60, 179	
<i>flavocerulea</i> Carter 1938, <i>Rec. Aust. Mus.</i> 20, 234	

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*luteipennis* Gory 1841, *Mon. Bupr.* 4, suppl., 130 V., N.S.W.  
*luteoincta* Saunders 1868, *J. Linn. Soc.* 9, 478 N.S.W.  
*macleani* Blackburn 1892, *Trans. R. Soc. S. Aust.* 15, 48 Q.  
*macmillani* Barker 1979, *Trans. R. Soc. S. Aust.* 103, 8 W.A.  
*maculicollis* Carter 1916, *Trans. R. Soc. S. Aust.* 40, 127 Q.  
*maculifer* Kerremans 1902, *Genera Insect.* 12, 208 N.S.W., Q.  
*maculipennis* Saunders 1868, *J. Linn. Soc.* 9, 480 N.S.W.  
*magnificollis* Barker 1979, *Trans. R. Soc. S. Aust.* 103, 2 Q.  
    *magnifica* Blackburn 1896, *Trans. R. Soc. S. Aust.* 20, 35  
*mansueta* Kerremans 1898, *Annls Soc. ent. Belg.* 42, 155 W.A.  
*media* Hope 1847, *Trans. ent. Soc. Lond.* 4, 284 S.A., V.  
*meeki* Théry 1937, *Bull. Soc. ent. Fr.* 42, 20 N. Guinea  
*metallica* Barker 1979, *Trans. R. Soc. S. Aust.* 103, 5 W.A.  
*militaris* Carter 1922, *Proc. Linn. Soc. N.S.W.* 47, 71 V., N.S.W.  
*minuta* Blackburn 1892, *Trans. R. Soc. S. Aust.* 15, 44 Q.  
*moribunda* Saunders 1869, *Insect. Saund.* 3, 18 N.S.W., Q.  
    *rotundata* Saunders 1869, *Insect. Saund.* 3, 19  
    *chorica* Carter 1934, *Proc. Linn. Soc. N.S.W.* 59, 253  
*mustelamajor* Thomson 1857, *Arch. Ent.* 1, 115 W.A., S.A., V., N.S.W., Q.  
    *gibbosa* MacLeay 1863, *Trans. ent. Soc. N.S.W.* 1, 26  
    *crasna* Carter 1935, *Proc. Linn. Soc. N.S.W.* 60, 180  
*nanula* Kerremans 1890, *Bull. Soc. ent. Belg.* 1890, 48 N.S.W., Q.  
*nasuta* Saunders 1869, *Insect. Saund.* 3, 15 V., N.S.W., Q.  
    *fossithorax* Obenberger 1928, *Arch. Naturgesch.* 1926, 92, 329  
*neglecta* Carter 1916, *Trans. R. Soc. S. Aust.* 40, 123 N.S.W.  
*nigriceps* Barker 1979, *Trans. R. Soc. S. Aust.* 103, 4 N.T., Q.  
*nigriventris* MacLeay 1863, *Trans. ent. Soc. N.S.W.* 1, 27 Q.  
*obliqua* Kerremans 1902, *Genera Insect.* 12, 209 N.S.W.  
    *astridae* Deuquet 1938, *Proc. Linn. Soc. N.S.W.* 63, 307  
*oblita* Carter 1931, *Aust. Zool.* 6, 347 N.S.W., Q.  
*obscura* Saunders 1869, *Insect. Saund.* 3, 26 S.A., Q.  
*obsepta* Kerremans 1890, *Bull. Soc. ent. Belg.* 1890, 44 Q.  
*occidentalis* Barker 1979, *Trans. R. Soc. S. Aust.* 103, 9 W.A.  
*ocelligera* Gory 1841, *Mon. Bupr.* 4, 133 T.  
*octomaculata* Saunders 1868, *J. Linn. Soc.* 9, 472 S.A., V., N.S.W., Q.  
*octosignata* Carter 1919, *Proc. Linn. Soc. N.S.W.* 44, 139 Q.  
*octosplota* L & G 1837, *Mon. Bupr.* 2, 28 N.S.W., Q.  
    *fenorata* L & G 1837, *Mon. Bupr.* 2, 37  
*opacipennis* Obenberger 1922, *Arch. Naturgesch.* 1922, 88, 116 N.S.W.  
*oronta* Blackburn 1892, *Trans. R. Soc. S. Aust.* 15, 53 V., N.S.W.  
*ovata* Barker 1979, *Trans. R. Soc. S. Aust.* 103, 10 W.A.  
*puligera* Carter 1937, *Trans. R. Soc. S. Aust.* 61, 125 N.S.W.  
*pallus* Blackburn 1901, *Trans. R. Soc. S. Aust.* 25, 22 [hurs. Isl.  
*pallidipennis* Blackburn 1890, *Trans. R. Soc. S. Aust.* 13, 154 W.A., S.A., V.  
*pallidiventris* L & G 1837, *Mon. Bupr.* 2, 42 W.A., S.A., V.  
    *rustica* Kerremans 1898, *Annls Soc. ent. Belg.* 42, 154  
    *vulgari* Obenberger 1928, *Arch. Naturgesch.* 1926, 92, 333  
*parallela* White 1859, *Proc. Zool. Soc. Lond.* 27, 119 W.A., S.A., V., N.S.W., Q.  
    *elongatula* MacLeay 1872, *Trans. ent. Soc. N.S.W.* 2, 246 W.A., S.A., V., N.S.W.  
*parallelipennis* Obenberger 1934, *Coleop. Cat.* 12, 725  
    *parallela* Saunders 1869, *Insect. Saund.* 3, 16  
*perlonga* Carter 1931, *Aust. Zool.* 6, 343 S.A., V., N.S.W.  
*pertyi* L & G 1837, *Mon. Bupr.* 2, 23 N.S.W., Q.  
    *minus* Saunders 1868, *J. Linn. Soc.* 9, 479  
*phacorhoea* (Kirby) 1818, *Trans. Linn. Soc.* 12, 456 W.A., Q.  
*pieta* L & G 1837, *Mon. Bupr.* 2, 46 W.A.  
    *purpurea* Hope 1846, *Trans. ent. Soc. Lond.* 4, 213  
    *lactabilis* Kerremans 1898, *Annls Soc. ent. Belg.* 42, 153  
*picipennis* Saunders 1868, *J. Linn. Soc.* 9, 471 W.A.  
*piliventris* Saunders 1868, *J. Linn. Soc.* 9, 474 W.A., S.A., V.  
*placida* Thomson 1879, *Typ. Bupr. App.* 1a, 33 W.A.

<i>plauata</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 133	W.A.
<i>auricollis</i> Thomson 1857, <i>Arch. Ent.</i> 1, 114	
<i>plunipes</i> Barker 1979, <i>Trans. R. Soc. S. Aust.</i> 103, 3	N.S.W., Q.
<i>pruetermissa</i> Carter 1921, <i>Proc. Linn. Soc. N.S.W.</i> 46, 306	V., N.S.W.
<i>producta</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 482	N.S.W., Q.
<i>neutipennis</i> Thomson 1879, <i>Typ. Bupr. App.</i> 1a, 33	
<i>sulvicollis</i> Kerremans 1902, <i>Genera Insect.</i> 12, 209	
<i>propinqua</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 124	S.A.
<i>pulchella</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 135	Q.
<i>pulehra</i> Saunders 1869, <i>Insect. Saund.</i> 3, 22	W.A.
<i>pulchripes</i> Blackburn 1897, <i>Trans. R. Soc. S. Aust.</i> 21, 31	V., N.S.W.
<i>punctatissima</i> Saunders 1869, <i>Insect. Saund.</i> 3, 24	N.S.W.
<i>punctatosuleata</i> Saunders 1869, <i>Insect. Saund.</i> 3, 24	V., N.S.W., Q.
<i>litigiosa</i> Kerremans 1890, <i>Bull. Soc. ent. Belg.</i> 1890, 45	
<i>punctiventris</i> Saunders 1869, <i>Insect. Saund.</i> 3, 17	W.A., S.A., V., N.S.W.
<i>pisciformis</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 125	
<i>quadrifasciata</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 477	W.A., S.A., N.T.
<i>quadrifoveolata</i> Obenberger 1933, <i>Čas čsl. Spol. ent.</i> 30, 69	Q.
<i>quadriguttata</i> MacLeay 1863, <i>Trans. R. Soc. N.S.W.</i> 1, 28	Q.
<i>scutellaris</i> Kerremans 1900, <i>Annls Soc. ent. Belg.</i> 44, 316	
<i>quadriplagiata</i> Carter 1930, <i>Proc. Linn. Soc. N.S.W.</i> 55, 353	Q.
<i>quinquepunctata</i> Waterhouse 1874, <i>Trans. R. ent. Soc. Lond.</i> 1874, 541	Q.
<i>raduus</i> Carter 1933, <i>Proc. Linn. Soc. N.S.W.</i> 58, 160	W.A.
<i>recta</i> Saunders 1869, <i>Insect. Saund.</i> 3, 23	W.A., V.
<i>dilatata</i> Carter 1927, <i>Proc. Linn. Soc. N.S.W.</i> 52, 226	
<i>dilatocollis</i> Carter 1929, <i>Aust. Zool.</i> 5, 294	
<i>rectifasciata</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 472	V., N.S.W.
<i>richardsi</i> Barker 1979, <i>Trans. R. Soc. S. Aust.</i> 103, 6	W.A.
<i>robusta</i> Saunders 1869, <i>Insect. Saund.</i> 3, 6	W.A., S.A., V.
<i>rollei</i> Kerremans 1908, <i>Dt. ent. Z.</i> 6, 63	Q.
<i>huckeri</i> Carter 1913, <i>Proc. Linn. Soc. N.S.W.</i> 37, 484	
<i>caudata</i> Carter 1908, <i>Proc. Linn. Soc. N.S.W.</i> 33, 418	
<i>rostralis</i> Carter 1917, <i>Proc. Linn. Soc. N.S.W.</i> 42, 718	W.A.
<i>rostrata</i> Thomson 1879, <i>Typ. Bupr. App.</i> 1a, 36	W.A.
<i>rubella</i> Carter 1931, <i>Aust. Zool.</i> 6, 345	Q.
<i>rubicunda</i> Carter 1931, <i>Aust. Zool.</i> 6, 346	Q.
<i>rubriventris</i> Blackburn 1900, <i>Trans. R. Soc. S. Aust.</i> 24, 46	W.A.
<i>insitata</i> Carter 1933, <i>Proc. Linn. Soc. N.S.W.</i> 58, 160	
<i>rufipennis</i> (Kirby) 1818, <i>Trans. Linn. Soc.</i> 12, 456	W.A., S.A., V., N.S.W., Q.
<i>crociopennis</i> L & G 1837, <i>Mon. Bupr.</i> 2, 21	
<i>crociopennis</i> Hope 1846, <i>Trans. ent. Soc. Lond.</i> 1846, 292	
<i>rufipes</i> MacLeay 1863, <i>Trans. ent. Soc. N.S.W.</i> 1, 23	Q.
<i>stigmaticollis</i> Obenberger 1928, <i>Arch. Naturgesch.</i> 1926, 92, 334	
<i>rufolimbata</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 120	W.A., S.A.
<i>rutila</i> Deuquet 1947, <i>Proc. Linn. Soc. N.S.W.</i> 72, 200	Q.
<i>sagittarii</i> L & G 1837, <i>Mon. Bupr.</i> 2, 31	W.A.
<i>hopei</i> Saunders 1868, <i>Trans. R. ent. Soc. Lond.</i> 1868, 39	
<i>hostilis</i> Blackburn 1892, <i>Trans. R. Soc. S. Aust.</i> 15, 46	
<i>sancta</i> Carter 1913, <i>Proc. Linn. Soc. N.S.W.</i> 37, 501	V.
<i>sanguinolenta</i> L & G, <i>Mon. Bupr.</i> 2, 45	W.A.
<i>scalaris</i> (Boisduval) 1835, <i>Voyage de l'Astrolabe</i> , 89	V., N.S.W., Q.
<i>cyanicollis</i> (Boisduval) 1835, <i>Voyage de l'Astrolabe</i> , 91	
<i>crucigera</i> L & G 1837, <i>Mon. Bupr.</i> 2, 40	
<i>viridis</i> L & G 1837, <i>Mon. Bupr.</i> 2, 46	
<i>crucigera</i> Hope 1838, <i>Col. Man.</i> 2, 162	
<i>prudens</i> Kerremans 1898, <i>Annls. Soc. ent. Belg.</i> 42, 152	
<i>suavis</i> Kerremans 1902, <i>Genera Insect.</i> 12, 210	
<i>crucioides</i> Obenberger 1922, <i>Arch. Naturgesch.</i> 1922, 88, 118	
<i>semicineta</i> L & G 1837, <i>Mon. Bupr.</i> 2, 19	V., N.S.W.
<i>seminigra</i> Carter 1913, <i>Proc. Linn. Soc. N.S.W.</i> 37, 500	Q.
<i>semisuturnlis</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 468	S.A., V., N.S.W., Q.
<i>speciosa</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 137	



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*tyrrhena* Blackburn 1903, *Trans. R. Soc. S. Aust.* 27, 306 .....  
*septemnotata* Carter 1916, *Trans. R. Soc. S. Aust.* 40, 86 ..... S.A.  
*septemmaculata* Blackburn 1892, *Trans. R. Soc. S. Aust.* 15, 45 .....  
*septemspilota* Carter 1913, *Proc. Linn. Soc. N.S.W.* 37, 503 ..... W.A.  
*serratipennis* Carter 1916, *Trans. R. Soc. S. Aust.* 40, 127 ..... W.A.  
*sexcavata* Deuquet 1938, *Proc. Linn. Soc. N.S.W.* 63, 306 ..... N.S.W.  
*sexguttata* MacLeay 1863, *Trans. ent. Soc. N.S.W.* 1, 29 ..... V., N.S.W., Q.  
    *puella* Saunders 1869, *Insect Saund.* 3, 25 .....  
    *carteri* Obenberger 1922, *Arch. Naturgesch.* 1922, 88, 123 .....  
*sexnotata* Carter 1916, *Trans. R. Soc. S. Aust.* 40, 131 ..... W.A.  
*sexplagiata* Gory 1841, *Mon. Bupr. supp.* 4, 132 ..... S.A., V., N.S.W., Q.  
    *plagiata* Gory 1841, *Mon. Bupr.* 4, err. add. ....  
    *crenata* L & G 1837, *Mon. Bupr.* 2, 39 .....  
    *hopei* Boheman 1858, *Eugenies Resa Zoologi* 1, 61 .....  
    *similata* Boheman 1858, *Eugenies Resa Zoologi* 1, 62 .....  
    *kreffti* MacLeay 1872, *Trans. ent. Soc. N.S.W.* 2, 245 .....  
    *variata* Kerremans 1902, *Genera Insect.* 12, 209 .....  
*sexualis* Carter 1929, *Proc. Linn. Soc. N.S.W.* 54, 69 ..... Q.  
*signata* Kerremans 1902, *Genera Insect.* 12, 210 ..... V., N.S.W.  
*simulata* L & G 1837, *Mon. Bupr.* 2, 26 ..... W.A., S.A., V.  
    *perplexa* Hope 1846, *Trans. ent. Soc. Lond.* 4, 211 .....  
    *helenae* (Hope) 1846, *Trans. ent. Soc. Lond.* 4, 215 .....  
    *lanuginosa* (Hope) 1846, *Trans. ent. Soc. Lond.* 4, 215 .....  
    *tiramosa* Thomson 1879, *Typ. Bupr. App.* 1a, 32 .....  
    *luis* Thomson 1879, *Typ. Bupr. App.* 1a, 33 .....  
    *phryne* Thomson 1879, *Typ. Bupr. App.* 1a, 33 .....  
    *fraterna* Kerremans 1890, *Bull. Soc. ent. Belg.* 1890, 46 .....  
    *distinguenda* Thomson 1879, *Typ. Bupr. App.* 1a, 34 .....  
    *ravilla* Obenberger 1922, *Arch. Naturgesch.* 1922, 88, 117 .....  
    *acutangula* Obenberger 1928, *Arch. Naturgesch.* 1926, 92, 333 .....  
    *yorkensis* Obenberger 1928, *Arch. Naturgesch.* 1926, 92, 335 .....  
*skusei* Blackburn 1892, *Trans. R. Soc. S. Aust.* 15, 46 ..... N.S.W., Q.  
*spectabilis* Kerremans 1900, *Annls Soc. ent. Belg.* 44, 315 ..... N.S.W.  
*spilota* L & G 1837, *Mon. Bupr.* 2, 24 ..... N.S.W.  
    *septemmaculata* (Mannerheim) 1837, *Bull. Soc. imp. nat. Moscou* 8, 98 .....  
    *diana* Obenberger 1922, *Arch. Naturgesch.* 1922, 88, 120 .....  
*spinolue* Gory 1841, *Mon. Bupr.* 4, supp., 129 ..... V., N.S.W., Q.  
*straminea* MacLeay 1863, *Trans. ent. Soc. N.S.W.* 1, 25 ..... Q.  
    *humaculata* Saunders 1868, *J. Linn. Soc.* 9, 481 .....  
    *eara* Blackburn 1892, *Trans. R. Soc. S. Aust.* 15, 216 .....  
    *placens* Kerremans 1898, *Annls Soc. ent. Belg.* 42, 143 .....  
    *addenda* Kerremans 1898, *Annls Soc. ent. Belg.* 42, 149 .....  
    *johannae* Théry 1911, *Mém. Soc. r. ent. Belg.* 18, 55 .....  
*strigata* MacLeay 1863, *Trans. ent. Soc. N.S.W.* 1, 27 ..... Q.  
*subacuticeps* Barker 1979, *Trans. R. Soc. S. Aust.* 103, 7 ..... W.A.  
*subbifasciata* Saunders 1868, *J. Linn. Soc.* 9, 479 ..... W.A.  
*subgrata* Blackburn 1900, *Trans. R. Soc. S. Aust.* 26, 41 ..... Q.  
    *campestris* Kerremans 1898, *Annls Soc. ent. Belg.* 42, 139 .....  
*subpura* Blackburn 1903, *Trans. R. Soc. S. Aust.* 27, 307 ..... N.S.W.  
*subtincta* Carter 1933, *Proc. Linn. Soc. N.S.W.* 58, 159 ..... W.A.  
    *sabnotata* Carter 1933, *Proc. Linn. Soc. N.S.W.* 58, 159 .....  
*subtrifasciata* L & G 1837, *Mon. Bupr.* 2, 41 ..... W.A., S.A., V., N.S.W.  
    *rubrocincta* Gehin 1855, *Bull. Soc. Hist. nat. Metz* 7, 61 .....  
*sulfitra* Deuquet 1938, *Proc. Linn. Soc. N.S.W.* 63, 305 ..... N.S.W.  
*suttoni* Carter 1932, *Proc. Linn. Soc. N.S.W.* 57, 104 ..... Q.  
*terminalis* Kerremans 1890, *Bull. Soc. ent. Belg.* 1890, 45 ..... N.S.W.  
*ustacea* Saunders 1869, *Insect Saund.* 3, 14 ..... V., N.S.W.  
*thomsoni* Saunders 1868, *J. Linn. Soc.* 9, 477 ..... V., F., N.S.W.  
    *dulcis* Blackburn 1900, *Trans. R. Soc. S. Aust.* 26, 41 .....  
    *colorata* Kerremans 1898, *Annls Soc. ent. Belg.* 42, 141 .....

<i>lineicauda</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 136	W.A.
<i>nitida</i> Carter 1916, <i>Trans. R. Soc. S. Aust.</i> 40, 134	N.S.W., Q.
<i>transversepicta</i> Thomson 1879, <i>Typ. Bupr. App.</i> 1a, 35	W.A.
<i>tricolor</i> (Kirby) 1818, <i>Trans. Linn. Soc.</i> 12, 455	N.S.W.
<i>curta</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 467	
<i>opima</i> Kerremans 1902, <i>Genera Insect.</i> 12, 207	
<i>trifasciata</i> L & G 1837, <i>Mon. Bupr.</i> 2, 38	W.A.
<i>apicalis</i> L & G 1837, <i>Mon. Bupr.</i> 2, 43	
<i>gravis</i> Harold 1869, <i>Col. Heft.</i> 5, 124	
<i>obscuripennis</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 475	
<i>bucolica</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 152	
<i>gebhardtii</i> Obenberger 1928, <i>Arch. Naturgesch.</i> 1926, 92, 332	
<i>trispiculis</i> Carter 1931, <i>Aust. Zool.</i> 6, 340	N.S.W., Q.
<i>tropica</i> Carter 1922, <i>Proc. Linn. Soc. N.S.W.</i> 47, 72	Q.
<i>undulata</i> (Donovan) 1805, <i>Epitome Natural History Insects New Holland</i> pl. 7, fig. 5	V., N.S.W.
<i>laportei</i> Boheman 1858, <i>Eugenies Resa Zoologi</i> 1, 61	
<i>uptoni</i> Barker 1979, <i>Trans. R. Soc. S. Aust.</i> 103, 13	N.T.
<i>vallisi</i> Deuquet 1964, <i>Proc. Linn. Soc. N.S.W.</i> 89, 128	Q.
<i>variopicta</i> Thomson 1878, <i>Typ. Bupr.</i> , 54	V., N.S.W.
<i>venusta</i> Carter 1914, <i>Proc. Linn. Soc. N.S.W.</i> 39, 84	Q.
<i>suavis</i> Carter 1913, <i>Proc. Linn. Soc. N.S.W.</i> 37, 507	
<i>modesta</i> Obenberger 1922, <i>Arch. Naturgesch.</i> 1922, 88, 122	
<i>verdiceps</i> Barker 1979, <i>Trans. R. Soc. S. Aust.</i> 103, 8	W.A.
<i>versicolor</i> L & G 1837, <i>Mon. Bupr.</i> 2, 42	W.A.
<i>decemguttata</i> Gory 1841, <i>Mon. Bupr.</i> 4, 132	
<i>parva</i> Saunders 1869, <i>Insect. Saund.</i> 3, 26	
<i>strandii</i> (Obenberger) 1920, <i>Ent. Mitt.</i> 1920, 165	
<i>subversicolor</i> Carter 1925, <i>Proc. Linn. Soc. N.S.W.</i> 50, 231	
<i>vicina</i> Saunders 1868, <i>Trans. R. ent. Soc. Lond.</i> 1868, 43	V., N.S.W.
<i>bicincta</i> L & G 1837, <i>Mon. Bupr.</i> 2, 31	
<i>victoriensis</i> Blackburn 1890, <i>Trans. R. Soc. S. Aust.</i> 13, 152	V
<i>sensitiva</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 148	
<i>humeralis</i> Kerremans 1902, <i>Genera Insect.</i> 12, 207	
<i>tillyardi</i> Carter 1913, <i>Proc. Linn. Soc. N.S.W.</i> 37, 502	
<i>vigilans</i> Kerremans 1898, <i>Annls Soc. ent. Belg.</i> 42, 143	V., N.S.W.
<i>violacea</i> MacLeay 1863, <i>Trans. ent. Soc. N.S.W.</i> 1, 23	N.S.W., Q.
<i>obliquefasciata</i> Obenberger 1922, <i>Arch. Naturgesch.</i> 1922, 88, 115	
<i>violatra</i> Deuquet 1956, <i>Proc. Linn. Soc. N.S.W.</i> 81, 156	Q.
<i>virginea</i> Erichson 1842, <i>Arch. Naturgesch.</i> 8, 135	T.
<i>viridiventris</i> MacLeay 1863, <i>Trans. ent. Soc. N.S.W.</i> 1, 27	Q.
<i>triguttata</i> MacLeay 1863, <i>Trans. ent. Soc. N.S.W.</i> 1, 28	
<i>subcostata</i> Kerremans 1900, <i>Annls Soc. ent. Belg.</i> 44, 317	
<i>vittata</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 478	W.A., S.A., V.
<i>vulgaris</i> Carter 1931, <i>Aust. Zool.</i> 6, 347	W.A.
<i>walfordi</i> Barker 1979, <i>Trans. R. Soc. S. Aust.</i> 103, 11	Q.
<i>wilsoni</i> Saunders 1868, <i>J. Linn. Soc.</i> 9, 476	V., T., N.S.W.
<i>sigma</i> Kerremans 1890, <i>Bull. Soc. ent. Belg.</i> 1890, 43	
<i>septentrionis</i> Obenberger 1922, <i>Arch. Naturgesch.</i> 1922, 88, 116	
<i>xanthopilosa</i> Hope 1847, <i>Trans. ent. Soc. Lond.</i> 4, 283	S.A., V., N.S.W.
<i>splendida</i> Gehin 1855, <i>Bull. Soc. Hist. nat. Metz</i> 7, 64	
<i>zecki</i> Deuquet 1959, <i>Proc. Linn. Soc. N.S.W.</i> 84, 129	Q.

# Emendation of a name in the genus *Astraeus* L & G (Coleoptera: Buprestidae)

In my second paper on the genus *Astraeus* (*Trans. R. Soc. S. Aust.* 101: 13-14) I inad-

vertantly used an inappropriate termination for a new species name. I now emend this name *A. crockeri* Barker, to *A. crockeriae* Barker.

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